



## RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 10/760,320  
Source: IFwo  
Date Processed by STIC: 1/27/04

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<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

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1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
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Revised 10/08/03



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:11

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

3 <110> APPLICANT: Research Association for Biotechnology  
 5 <120> TITLE OF INVENTION: Full length cDNA  
 7 <130> FILE REFERENCE: BTR-A0201Y1  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/760,320  
 C--> 9 <141> CURRENT FILING DATE: 2004-01-21  
 E--> 9 <160> NUMBER OF SEQ ID NOS: 4994  
 11 <170> SOFTWARE: PatentIn Ver. 3.1

see pp 1-3, 5, 7,  
 10-11, 13, 15-17, 20,  
 22, 24-25, 28-33

due to  
 duplicate  
 sequence  
 entries

Does Not Comply  
 Corrected Diskette Needed

## ERRORED SEQUENCES

254342 <210> SEQ ID NO: 4820  
 254343 <211> LENGTH: 486  
 254344 <212> TYPE: PRT  
 254345 <213> ORGANISM: Homo sapiens  
 E--> 254348 <400> SEQUENCE: 443  
 254349 Met Arg Gly Arg Gly Ser Gln Gln Gln Gln Pro Thr Arg Arg Gln Gly  
 254350 1 5 10 15  
 254351 Gln Lys Leu Pro Ser Pro Ser Pro Ala Gly Lys Tyr Glu Ser Ala Gln  
 254352 20 25 30  
 254353 Pro Gly Gly Thr Gln Pro Glu Pro Gly Leu Gly Ala Arg Met Ala Ile  
 254354 35 40 45  
 254355 His Lys Ala Leu Val Met Cys Leu Gly Leu Pro Leu Phe Leu Phe Pro  
 254356 50 55 60  
 254357 Gly Ala Trp Ala Gln Gly His Val Pro Pro Gly Cys Ser Gln Gly Leu  
 254358 65 70 75 80  
 254359 Asn Pro Leu Tyr Tyr Asn Leu Cys Asp Arg Ser Gly Ala Trp Gly Ile  
 254360 85 90 95  
 254361 Val Leu Glu Ala Val Ala Gly Ala Gly Ile Val Thr Thr Phe Val Leu  
 254362 100 105 110  
 254363 Thr Ile Ile Leu Val Ala Ser Leu Pro Phe Val Gln Asp Thr Lys Lys  
 254364 115 120 125  
 254365 Arg Ser Leu Leu Gly Thr Gln Val Phe Phe Leu Leu Gly Thr Leu Gly  
 254366 130 135 140  
 254367 Leu Phe Cys Leu Val Phe Ala Cys Val Val Lys Pro Asp Phe Ser Thr  
 254368 145 150 155 160  
 254369 Cys Ala Ser Arg Arg Phe Leu Phe Gly Val Leu Phe Ala Ile Cys Phe  
 254370 165 170 175  
 254371 Ser Cys Leu Ala Ala His Val Phe Ala Leu Asn Phe Leu Ala Arg Lys  
 254372 180 185 190  
 254373 Asn His Gly Pro Arg Gly Trp Val Ile Phe Thr Val Ala Leu Leu Leu  
 254374 195 200 205  
 254375 Thr Leu Val Glu Val Ile Ile Asn Thr Glu Trp Leu Ile Ile Thr Leu

This appears  
 after 4819 with <400> 443. It  
 appears  
 a second  
 time  
 with  
 <400> 4820.

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

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254376      210      215      220
254377 Val Arg Gly Ser Gly Glu Gly Gly Pro Gln Gly Asn Ser Ser Ala Gly
254378 225      230      235      240
254379 Trp Ala Val Ala Ser Pro Cys Ala Ile Ala Asn Met Asp Phe Val Met
254380      245      250      255
254381 Ala Leu Ile Tyr Val Met Leu Leu Leu Leu Gly Ala Phe Leu Gly Ala
254382      260      265      270
254383 Trp Pro Ala Leu Cys Gly Arg Tyr Lys Arg Trp Arg Lys His Gly Val
254384      275      280      285
254385 Phe Val Leu Leu Thr Thr Ala Thr Ser Val Ala Ile Trp Val Val Trp
254386      290      295      300
254387 Ile Val Met Tyr Thr Tyr Gly Asn Lys Gln His Asn Ser Pro Thr Trp
254388 305      310      315      320
254389 Asp Asp Pro Thr Leu Ala Ile Ala Leu Ala Ala Asn Ala Trp Ala Phe
254390      325      330      335
254391 Val Leu Phe Tyr Val Ile Pro Glu Val Ser Gln Val Thr Lys Ser Ser
254392      340      345      350
254393 Pro Glu Gln Ser Tyr Gln Gly Asp Met Tyr Pro Thr Arg Gly Val Gly
254394      355      360      365
254395 Tyr Glu Thr Ile Leu Lys Glu Gln Lys Gly Gln Ser Met Phe Val Glu
254396      370      375      380
254397 Asn Lys Ala Phe Ser Met Asp Glu Pro Val Ala Ala Lys Arg Pro Val
254398 385      390      395      400
254399 Ser Pro Tyr Ser Gly Tyr Asn Gly Gln Leu Leu Thr Ser Val Tyr Gln
254400      405      410      415
254401 Pro Thr Glu Met Ala Leu Met His Lys Val Pro Ser Glu Gly Ala Tyr
254402      420      425      430
254403 Asp Ile Ile Leu Pro Arg Ala Thr Ala Asn Ser Gln Val Met Gly Ser
254404      435      440      445
254405 Ala Asn Ser Thr Leu Arg Ala Glu Asp Met Tyr Ser Ala Gln Ser His
254406      450      455      460
254407 Gln Ala Ala Thr Pro Pro Lys Asp Gly Lys Asn Ser Gln Val Phe Arg
254408 465      470      475      480
254409 Asn Pro Tyr Val Trp Asp
254410      485

```

254413 &lt;210&gt; SEQ ID NO: 4821

254414 &lt;211&gt; LENGTH: 301

254415 &lt;212&gt; TYPE: PRT

254416 &lt;213&gt; ORGANISM: Homo sapiens

*This is first appearance. Second appearance,  
with <400> 4821.*

E--&gt; 254418 &lt;400&gt; SEQUENCE: 444

```

254419 Met Tyr Thr Arg Arg Tyr Ser Ser Ile Ser Ser Thr Ile Met Asp Val
254420 1      5      10      15
254421 Asp Ser Thr Ile Ser Ser Gly Arg Ser Thr Pro Ala Met Met Asn Gly
254422      20      25      30
254423 Gln Gly Ser Thr Thr Ser Ser Ser Lys Asn Ile Ala Tyr Asn Cys Cys
254424      35      40      45
254425 Trp Asp Gln Cys Gln Ala Cys Phe Asn Ser Ser Pro Asp Leu Ala Asp
254426      50      55      60
254427 His Ile Arg Ser Ile His Val Asp Gly Gln Arg Gly Gly Val Phe Val

```

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US(Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

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254428 65          70          75          80
254429 Cys Leu Trp Lys Gly Cys Lys Val Tyr Asn Thr Pro Ser Thr Ser Gln
254430          85          90          95
254431 Ser Trp Leu Gln Arg His Met Leu Thr His Ser Gly Asp Lys Pro Phe
254432          100          105          110
254433 Lys Cys Val Val Gly Gly Cys Asn Ala Ser Phe Ala Ser Gln Gly Gly
254434          115          120          125
254435 Leu Ala Arg His Val Pro Thr His Phe Ser Gln Gln Asn Ser Ser Lys
254436          130          135          140
254437 Val Ser Ser Gln Pro Lys Ala Lys Glu Glu Ser Pro Ser Lys Ala Gly
254438 145          150          155          160
254439 Met Asn Lys Arg Arg Lys Leu Lys Asn Lys Arg Arg Arg Ser Leu Pro
254440          165          170          175
254441 Arg Pro His Asp Phe Phe Asp Ala Gln Thr Leu Asp Ala Ile Arg His
254442          180          185          190
254443 Arg Ala Ile Cys Phe Asn Leu Ser Ala His Ile Glu Ser Leu Gly Lys
254444          195          200          205
254445 Gly His Ser Val Val Phe His Ser Thr Val Ile Ala Lys Arg Lys Glu
254446          210          215          220
254447 Asp Ser Gly Lys Ile Lys Leu Leu Leu His Trp Met Pro Glu Asp Ile
254448 225          230          235          240
254449 Leu Pro Asp Val Trp Val Asn Glu Ser Glu Arg His Gln Leu Lys Thr
254450          245          250          255
254451 Lys Val Val His Leu Ser Lys Leu Pro Lys Asp Thr Ala Leu Leu Leu
254452          260          265          270
254453 Asp Pro Asn Ile Tyr Arg Thr Met Pro Gln Lys Arg Leu Lys Arg Thr
254454          275          280          285
254455 Leu Ile Arg Lys Val Phe Asn Leu Tyr Leu Ser Lys Gln
254456          290          295          300

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254459 &lt;210&gt; SEQ ID NO: 4822

254460 &lt;211&gt; LENGTH: 626

254461 &lt;212&gt; TYPE: PRT

254462 &lt;213&gt; ORGANISM: Homo sapiens

*First appearance. Second appearance,  
with 40074822*

E--&gt; 254464 &lt;400&gt; SEQUENCE: 445

```

254465 Met Ala Val Ser Gly Phe Thr Leu Gly Thr Cys Ile Leu Leu Leu His
254466 1          5          10          15
254467 Ile Ser Tyr Val Ala Asn Tyr Pro Asn Gly Lys Val Thr Gln Ser Cys
254468          20          25          30
254469 His Gly Met Ile Pro Glu His Gly His Ser Pro Gln Ser Val Pro Val
254470          35          40          45
254471 His Asp Ile Tyr Val Ser Gln Met Thr Phe Arg Pro Gly Asp Gln Ile
254472          50          55          60
254473 Glu Val Thr Leu Ser Gly His Pro Phe Lys Gly Phe Leu Leu Glu Ala
254474 65          70          75          80
254475 Arg Asn Ala Glu Asp Leu Asn Gly Pro Pro Ile Gly Ser Phe Thr Leu
254476          85          90          95
254477 Ile Asp Ser Glu Val Ser Gln Leu Leu Thr Cys Glu Asp Ile Gln Gly
254478          100          105          110
254479 Ser Ala Val Ser His Arg Ser Ala Ser Lys Lys Thr Glu Ile Lys Val

```

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

254480				115				120					125			
254481	Tyr	Trp	Asn	Ala	Pro	Ser	Ser	Ala	Pro	Asn	His	Thr	Gln	Phe	Leu	Val
254482		130					135					140				
254483	Thr	Val	Val	Glu	Lys	Tyr	Lys	Ile	Tyr	Trp	Val	Lys	Ile	Pro	Gly	Pro
254484	145					150					155					160
254485	Ile	Ile	Ser	Gln	Pro	Asn	Ala	Phe	Pro	Phe	Thr	Thr	Pro	Lys	Ala	Thr
254486					165					170						175
254487	Val	Val	Leu	Leu	Pro	Thr	Leu	Pro	Pro	Val	Ser	His	Leu	Thr	Lys	Pro
254488				180					185					190		
254489	Phe	Ser	Ala	Ser	Asp	Cys	Gly	Asn	Lys	Lys	Phe	Cys	Ile	Arg	Ser	Pro
254490			195					200					205			
254491	Leu	Asn	Cys	Asp	Pro	Glu	Lys	Glu	Ala	Ser	Cys	Val	Phe	Leu	Ser	Phe
254492		210					215					220				
254493	Thr	Arg	Asp	Asp	Gln	Ser	Val	Met	Val	Glu	Met	Ser	Gly	Pro	Ser	Lys
254494	225				230						235					240
254495	Gly	Tyr	Leu	Ser	Phe	Ala	Leu	Ser	His	Asp	Gln	Trp	Met	Gly	Asp	Asp
254496				245					250						255	
254497	Asp	Ala	Tyr	Leu	Cys	Ile	His	Glu	Asp	Gln	Thr	Val	Tyr	Ile	Gln	Pro
254498			260					265						270		
254499	Ser	His	Leu	Thr	Gly	Arg	Ser	His	Pro	Val	Met	Asp	Ser	Arg	Asp	Thr
254500			275					280					285			
254501	Leu	Glu	Asp	Met	Ala	Trp	Arg	Leu	Ala	Asp	Gly	Val	Met	Gln	Cys	Ser
254502		290					295					300				
254503	Phe	Arg	Arg	Asn	Ile	Thr	Leu	Pro	Gly	Val	Lys	Asn	Arg	Phe	Asp	Leu
254504	305				310						315					320
254505	Asn	Thr	Ser	Tyr	Tyr	Ile	Phe	Leu	Ala	Asp	Gly	Ala	Ala	Asn	Asp	Gly
254506				325						330					335	
254507	Arg	Ile	Tyr	Lys	His	Ser	Gln	Gln	Pro	Leu	Ile	Thr	Tyr	Glu	Lys	Tyr
254508			340						345					350		
254509	Asp	Val	Thr	Asp	Ser	Pro	Lys	Asn	Ile	Gly	Gly	Ser	His	Ser	Val	Leu
254510			355					360					365			
254511	Leu	Leu	Lys	Val	His	Gly	Ala	Leu	Met	Phe	Val	Ala	Trp	Met	Thr	Thr
254512		370					375					380				
254513	Val	Ser	Ile	Gly	Val	Leu	Val	Ala	Arg	Phe	Phe	Lys	Pro	Val	Trp	Ser
254514	385					390					395					400
254515	Lys	Ala	Phe	Leu	Leu	Gly	Glu	Ala	Ala	Trp	Phe	Gln	Val	His	Arg	Met
254516				405						410					415	
254517	Leu	Met	Phe	Thr	Thr	Thr	Val	Leu	Thr	Cys	Ile	Ala	Phe	Val	Met	Pro
254518			420						425					430		
254519	Phe	Ile	Tyr	Arg	Gly	Gly	Trp	Ser	Arg							

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US(Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

254529 Lys Thr Tyr Ala Met Thr Gly Phe Val Ala Trp His Val Gly Thr Glu  
 254530 515 520 525  
 254531 Val Val Leu Glu Leu Lys Tyr Trp Met Met Thr Glu Phe Arg Ser Phe  
 254532 530 535 540  
 254533 Ser His Leu Leu Gln Trp Lys Gln Arg Val Met Leu Leu Lys Arg Gln  
 254534 545 550 555 560  
 254535 Cys Trp Gln Phe Met Ser Val Gly Met Leu Leu Phe Ser Ser Tyr Phe  
 254536 565 570 575  
 254537 Tyr Leu Gln Ser Thr Ile Tyr Glu Gln Ala Lys Thr Leu Ala Phe Ala  
 254538 580 585 590  
 254539 Gly Gln Val Ile Ile Ile Ile Lys Pro Lys Lys Leu Glu Ala Cys Pro  
 254540 595 600 605  
 254541 Asp Cys Leu Glu His Ile Cys Glu Phe Ser Leu Gly Arg Leu Gly Ser  
 254542 610 615 620  
 254543 Cys Leu  
 254544 625  
 254547 <210> SEQ ID NO: 4823  
 254548 <211> LENGTH: 827  
 254549 <212> TYPE: PRT  
 254550 <213> ORGANISM: Homo sapiens

*First appearance. Second appearance, with  
 <400> 4823*

E--&gt; 254552 &lt;400&gt; SEQUENCE: (446)

254553 Met Ile Arg Arg Leu Lys Thr Glu Val Leu Thr Gln Leu Pro Pro Lys  
 254554 1 5 10 15  
 254555 Val Arg Gln Arg Ile Pro Phe Asp Leu Pro Ser Ala Ala Ala Lys Glu  
 254556 20 25 30  
 254557 Leu Asn Thr Ser Phe Glu Glu Trp Glu Lys Ile Met Arg Thr Pro Asn  
 254558 35 40 45  
 254559 Ser Gly Ala Met Glu Thr Val Met Gly Leu Ile Thr Arg Met Phe Lys  
 254560 50 55 60  
 254561 Gln Thr Ala Ile Ala Lys Ala Gly Ala Val Lys Asp Tyr Ile Lys Met  
 254562 65 70 75 80  
 254563 Met Leu Gln Asn Asp Ser Leu Lys Phe Leu Val Phe Ala His His Leu  
 254564 85 90 95  
 254565 Ser Met Leu Gln Ala Cys Thr Glu Ala Val Ile Glu Asn Lys Thr Arg  
 254566 100 105 110  
 254567 Tyr Ile Arg Ile Asp Gly Ser Val Ser Ser Ser Glu Arg Ile His Leu  
 254568 115 120 125  
 254569 Val Asn Gln Phe Gln Lys Asp Pro Asp Thr Arg Val Ala Ile Leu Ser  
 254570 130 135 140  
 254571 Ile Gln Ala Ala Gly Gln Gly Leu Thr Phe Thr Ala Ala Ser His Val  
 254572 145 150 155 160  
 254573 Val Phe Ala Glu Leu Tyr Trp Asp Pro Gly His Ile Lys Gln Ala Glu  
 254574 165 170 175  
 254575 Asp Arg Ala His Arg Ile Gly Gln Cys Ser Ser Val Asn Ile His Tyr  
 254576 180 185 190  
 254577 Leu Ile Ala Asn Gly Thr Leu Asp Thr Leu Met Trp Gly Met Leu Asn  
 254578 195 200 205  
 254579 Arg Lys Ala Gln Val Thr Gly Ser Thr Leu Asn Gly Arg Lys Glu Lys  
 254580 210 215 220

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US(Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

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254581 Ile Gln Ala Glu Glu Gly Asp Lys Glu Lys Trp Asp Phe Leu Gln Phe
254582 225          230          235          240
254583 Ala Glu Ala Trp Thr Pro Asn Asp Ser Ser Glu Glu Leu Arg Lys Glu
254584          245          250          255
254585 Ala Leu Phe Thr His Phe Glu Lys Glu Lys Gln His Asp Ile Arg Ser
254586          260          265          270
254587 Phe Phe Val Pro Gln Pro Lys Lys Arg Gln Leu Met Thr Ser Cys Asp
254588          275          280          285
254589 Glu Ser Lys Arg Phe Arg Glu Glu Asn Thr Val Val Ser Ser Asp Pro
254590          290          295          300
254591 Thr Lys Thr Ala Ala Arg Asp Ile Ile Asp Tyr Glu Ser Asp Val Glu
254592 305          310          315          320
254593 Pro Glu Thr Lys Arg Leu Lys Leu Ala Ala Ser Glu Asp His Cys Ser
254594          325          330          335
254595 Pro Ser Glu Glu Thr Pro Ser Gln Ser Lys Gln Ile Arg Thr Pro Leu
254596          340          345          350
254597 Val Glu Ser Val Gln Glu Ala Lys Ala Gln Leu Thr Thr Pro Ala Phe
254598          355          360          365
254599 Pro Val Glu Gly Trp Gln Cys Ser Leu Cys Thr Tyr Ile Asn Asn Ser
254600          370          375          380
254601 Glu Leu Pro Tyr Cys Glu Met Cys Glu Thr Pro Gln Gly Ser Ala Val
254602 385          390          395          400
254603 Met Gln Ile Asp Ser Leu Asn His Ile Gln Asp Lys Asn Glu Lys Asp
254604          405          410          415
254605 Asp Ser Gln Lys Asp Thr Ser Lys Lys Val Gln Thr Ile Ser Asp Cys
254606          420          425          430
254607 Glu Lys Gln Ala Leu Ala Gln Ser Glu Pro Gly Gln Leu Ala Asp Ser
254608          435          440          445
254609 Lys Glu Glu Thr Pro Lys Ile Glu Lys Glu Asp Gly Leu Thr Ser Gln
254610          450          455          460
254611 Pro Gly Asn Glu Gln Trp Lys Ser Ser Asp Thr Leu Pro Val Tyr Asp
254612 465          470          475          480
254613 Thr Leu Met Phe Cys Ala Ser Arg Asn Thr Asp Arg Ile His Ile Tyr
254614          485          490          495
254615 Thr Lys Asp Gly Lys Gln Met Ser Cys Asn Phe Ile Pro Leu Asp Ile
254616          500          505          510
254617 Lys Leu Asp Leu Trp Glu Asp Leu Pro Ala Ser Phe Gln Leu Lys Gln
254618          515          520          525
254619 Tyr Arg Ser Leu Ile Leu Arg Phe Val Arg Glu Trp Ser Ser Leu Thr
254620          530          535          540
254622 Ala Met Lys Gln Arg Ile Ile Arg Lys Ser Gly Gln Leu Phe Cys Ser
254623 545          550          555          560
254624 Pro Ile Leu Ala Leu Glu Glu Ile Thr Lys Gln Gln Thr Lys Gln Asn
254625          565          570          575
254626 Cys Thr Lys Arg Tyr Ile Thr Lys Glu Asp Val Ala Val Ala Ser Met
254627          580          585          590
254628 Asp Lys Ala Lys Asn Val Gly Gly His Val Arg Leu Ile Thr Lys Glu
254629          595          600          605
254630 Ser Arg Pro Arg Asp Pro Phe Thr Lys Lys Leu Leu Glu Asp Gly Ala

```

## RAW SEQUENCE LISTING

DATE: 01/27/2004

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TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

```

254631      610      615      620
254632 Cys Val Pro Phe Leu Asn Pro Tyr Thr Val Gln Ala Asp Leu Thr Val
254633 625      630      635      640
254634 Lys Pro Ser Thr Ser Lys Gly Tyr Leu Gln Ala Val Asp Asn Glu Gly
254635      645      650      655
254636 Asn Pro Leu Cys Leu Arg Cys Gln Gln Pro Thr Cys Gln Thr Lys Gln
254637      660      665      670
254638 Ala Cys Lys Ala Asn Ser Trp Asp Ser Arg Phe Cys Ser Leu Lys Cys
254639      675      680      685
254640 Gln Glu Glu Phe Trp Ile Arg Ser Asn Asn Ser Tyr Leu Arg Ala Lys
254641      690      695      700
254642 Val Phe Glu Thr Glu His Gly Val Cys Gln Leu Cys Asn Val Asn Ala
254643 705      710      715      720
254644 Gln Glu Leu Phe Leu Arg Leu Arg Asp Ala Pro Lys Ser Gln Arg Lys
254645      725      730      735
254646 Asn Leu Leu Tyr Ala Thr Trp Thr Ser Lys Leu Pro Leu Glu Gln Leu
254647      740      745      750
254648 Asn Glu Met Ile Arg Asn Pro Gly Glu Gly His Phe Trp Gln Val Asp
254649      755      760      765
254650 His Ile Lys Pro Val Tyr Gly Gly Gly Gly Gln Cys Ser Leu Asp Asn
254651      770      775      780
254652 Leu Gln Thr Leu Cys Thr Val Cys His Lys Glu Arg Thr Ala Arg Gln
254653 785      790      795      800
254654 Ala Lys Glu Arg Ser Gln Val Arg Arg Gln Ser Leu Ala Ser Lys His
254655      805      810      815
254656 Gly Ser Asp Ile Thr Arg Phe Leu Val Lys Lys
254657      820      825
254661 <210> SEQ ID NO: 4824
254662 <211> LENGTH: 994
254663 <212> TYPE: PRT
254664 <213> ORGANISM: Homo sapiens

```

*First appearance. Second appearance,  
with <400> 4824*

E--&gt; 254666 &lt;400&gt; SEQUENCE (447)

```

254667 Met Ser Gln Trp Thr Pro Glu Tyr Lys Glu Leu Tyr Thr Leu Lys Val
254668 1      5      10      15
254669 Asp Met Lys Ser Glu Ile Pro Ser Asp Ala Pro Lys Thr Gln Glu Ser
254670      20      25      30
254671 Leu Lys Gly Ile Leu Leu His Pro Glu Pro Ile Gly Ala Ala Lys Ser
254672      35      40      45
254673 Phe Pro Ala Gly Val Glu Met Ile Asn Ser Lys Val Gly Asn Glu Phe
254674      50      55      60
254675 Ser His Leu Cys Asp Asp Ser Gln Lys Gln Glu Lys Glu Met Asn Gly
254676 65      70      75      80
254677 Asn Gln Gln Glu Gln Lys Ser Leu Val Val Arg Lys Lys Arg Lys
254678      85      90      95
254679 Ser Gln Gln Ala Gly Pro Ser Tyr Val Gln Asn Cys Val Lys Glu Asn
254680      100      105      110
254681 Gln Gly Ile Leu Gly Leu Arg Gln His Leu Gly Thr Pro Ser Asp Glu
254682      115      120      125
254683 Asp Asn Asp Ser Ser Phe Ser Asp Cys Leu Ser Ser Pro Ser Ser Ser

```



## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

```

254684      130              135              140
254685 Leu His Phe Gly Asp Ser Asp Thr Val Thr Ser Asp Glu Asp Lys Glu
254686 145              150              155              160
254687 Val Ser Val Arg His Ser Gln Thr Ile Leu Asn Ala Lys Ser Arg Ser
254688              165              170              175
254689 His Ser Ala Arg Ser His Lys Trp Pro Arg Thr Glu Thr Glu Ser Val
254690              180              185              190
254691 Ser Gly Leu Leu Met Lys Arg Pro Cys Leu His Gly Ser Ser Leu Arg
254692              195              200              205
254693 Arg Leu Pro Cys Arg Lys Arg Phe Val Lys Asn Asn Ser Ser Gln Arg
254694      210              215              220
254695 Thr Gln Lys Gln Lys Glu Arg Ile Leu Met Gln Arg Lys Lys Arg Glu
254696 225              230              235              240
254697 Val Leu Ala Arg Arg Lys Tyr Ala Leu Leu Pro Ser Ser Ser Ser
254698              245              250              255
254699 Ser Glu Asn Asp Leu Ser Ser Glu Ser Ser Ser Ser Ser Thr Glu
254700              260              265              270
254701 Gly Glu Glu Asp Leu Phe Val Ser Ala Ser Glu Asn His Gln Asn Asn
254702              275              280              285
254703 Pro Ala Val Pro Ser Gly Ser Ile Asp Glu Asp Val Val Val Ile Glu
254704      290              295              300
254705 Ala Ser Ser Thr Pro Gln Val Thr Ala Asn Glu Glu Ile Asn Val Thr
254706 305              310              315              320
254707 Ser Thr Asp Ser Glu Val Glu Ile Val Thr Val Gly Glu Ser Tyr Arg
254708              325              330              335
254709 Ser Arg Ser Thr Leu Gly His Ser Arg Ser His Trp Ser Gln Gly Ser
254710              340              345              350
254711 Ser Ser His Ala Ser Arg Pro Gln Glu Pro Arg Asn Arg Ser Arg Ile
254712              355              360              365
254713 Ser Thr Val Ile Gln Pro Leu Arg Gln Asn Ala Ala Glu Val Val Asp
254714      370              375              380
254715 Leu Thr Val Asp Glu Asp Glu Pro Thr Val Val Pro Thr Thr Ser Ala
254716 385              390              395              400
254717 Arg Met Glu Ser Gln Ala Thr Ser Ala Ser Ile Asn Asn Ser Asn Pro
254718              405              410              415
254719 Ser Thr Ser Glu Gln Ala Ser Asp Thr Ala Ser Ala Val Thr Ser Ser
254720              420              425              430
254721 Gln Pro Ser Thr Val Ser Glu Thr Ser Ala Thr Leu Thr Ser Asn Ser
254722              435              440              445
254723 Thr Thr Gly Thr Ser Ile Gly Asp Asp Ser Arg Arg Thr Thr Ser Ser
254724      450              455              460
254725 Ala Val Thr Glu Thr Gly Pro Pro Ala Met Pro Arg Leu Pro Ser Cys
254726 465              470              475              480
254727 Cys Pro Gln His Ser Pro Cys Gly Gly Ser Ser Gln Asn His His Ala
254728              485              490              495
254729 Leu Gly His Pro His Thr Ser Cys Phe Gln Gln His Gly His His Phe
254730              500              505              510
254731 Gln His His His His His His His Thr Pro His Pro Ala Val Pro Val
254732              515              520              525

```

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

```

254733 Ser Pro Ser Phe Ser Asp Pro Ala Cys Pro Val Glu Arg Pro Pro Gln
254734      530      535      540
254735 Val Gln Ala Pro Cys Gly Ala Asn Ser Ser Ser Gly Thr Ser Tyr His
254736 545      550      555      560
254737 Glu Gln Gln Ala Leu Pro Val Asp Leu Ser Asn Ser Gly Ile Arg Ser
254738      565      570      575
254739 His Gly Ser Gly Ser Phe His Gly Ala Ser Ala Phe Asp Pro Cys Cys
254740      580      585      590
254741 Pro Val Ser Ser Ser Arg Ala Ala Ile Phe Gly His Gln Ala Ala Ala
254742      595      600      605
254743 Ala Ala Pro Ser Gln Pro Leu Ser Ser Ile Asp Gly Tyr Gly Ser Ser
254744      610      615      620
254745 Met Val Ala Gln Pro Gln Pro Gln Pro Pro Gln Pro Ser Leu Ser
254746 625      630      635      640
254747 Ser Cys Arg His Tyr Met Pro Pro Pro Tyr Ala Ser Leu Thr Arg Pro
254748      645      650      655
254749 Leu His His Gln Ala Ser Ala Cys Pro His Ser His Gly Asn Pro Pro
254750      660      665      670
254751 Pro Gln Thr Gln Pro Pro Pro Gln Val Asp Tyr Val Ile Pro His Pro
254752      675      680      685
254753 Val His Ala Phe His Ser Gln Ile Ser Ser His Ala Thr Ser His Pro
254754      690      695      700
254755 Val Ala Pro Pro Pro Pro Thr His Leu Ala Ser Thr Ala Ala Pro Ile
254756 705      710      715      720
254757 Pro Gln His Leu Pro Pro Thr His Gln Pro Ile Ser His His Ile Pro
254758      725      730      735
254759 Ala Thr Ala Pro Pro Ala Gln Arg Leu His Pro His Glu Val Met Gln
254760      740      745      750
254761 Arg Met Glu Val Gln Arg Arg Arg Met Met Gln His Pro Thr Arg Ala
254762      755      760      765
254763 His Glu Arg Pro Pro Pro His Pro His Arg Met His Pro Asn Tyr Gly
254764      770      775      780
254765 His Gly His His Ile His Val Pro Gln Thr Met Ser Ser His Pro Arg
254766 785      790      795      800
254767 Gln Ala Pro Glu Arg Ser Ala Trp Glu Leu Gly Ile Glu Ala Gly Val
254768      805      810      815
254769 Thr Ala Ala Thr Tyr Thr Pro Gly Ala Leu His Pro His Leu Ala His
254770      820      825      830
254771 Tyr His Ala Pro Pro Arg Leu His His Leu Gln Leu Gly Ala Leu Pro
254772      835      840      845
254773 Leu Met Val Pro Asp Met Ala Gly Tyr Pro His Ile Arg Tyr Ile Ser
254774      850      855      860
254775 Ser Gly Leu Asp Gly Thr Ser Phe Arg Gly Pro Phe Arg Gly Asn Phe
254776 865      870      875      880
254777 Glu Glu Leu Ile His Leu Glu Glu Arg Leu Gly Asn Val Asn Arg Gly
254778      885      890      895
254779 Ala Ser Gln Gly Thr Ile Glu Arg Cys Thr Tyr Pro His Lys Tyr Lys
254780      900      905      910
254781 Lys Val Thr Thr Asp Trp Phe Ser Gln Arg Lys Leu His Cys Lys Gln

```

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

254782            915                            920                            925  
 254783 Asp Gly Glu Glu Gly Thr Glu Glu Asp Thr Glu Glu Lys Cys Thr Ile  
 254784            930                            935                            940  
 254785 Cys Leu Ser Ile Leu Glu Glu Gly Glu Asp Val Arg Arg Leu Pro Cys  
 254786 945                            950                            955                            960  
 254787 Met His Leu Phe His Gln Val Cys Val Asp Gln Trp Leu Val Thr Asn  
 254788                            965                            970                            975  
 254789 Lys Lys Cys Pro Ile Cys Arg Val Asp Ile Glu Ala Gln Leu Pro Ser  
 254790                            980                            985                            990  
 254791 Glu Ser  
 254795 <210> SEQ ID NO: 4825  
 254796 <211> LENGTH: 105  
 254797 <212> TYPE: PRT  
 254798 <213> ORGANISM: Homo sapiens

*First appearance. Second appearance, with  
40074825*

## E--&gt; 254800 &lt;400&gt; SEQUENCE: 448

254801 Met Glu Gln Ser Trp Thr Glu Asn Asp Phe Asp Glu Leu Arg Glu Glu  
 254802 1                            5                            10                            15  
 254803 Gly Phe Arg Arg Ser Asn Tyr Glu Leu Gln Glu Glu Ile Gln Ile Lys  
 254804                            20                            25                            30  
 254805 Gly Lys Glu Val Lys Asn Phe Glu Lys Asn Leu Asp Glu Cys Ile Thr  
 254806                            35                            40                            45  
 254807 Arg Ile Thr Asn Thr Glu Lys Cys Leu Glu Asp Leu Met Glu Leu Lys  
 254808                            50                            55                            60  
 254809 Ala Lys Ala Arg Glu Leu Cys Glu Glu Cys Arg Ser Leu Arg Ser Arg  
 254810 65                            70                            75                            80  
 254811 Cys Asp Gln Leu Glu Arg Val Ser Val Met Glu Asp Glu Met Asn  
 254812                            85                            90                            95  
 254813 Glu Met Lys Gln Glu Gly Lys Phe Arg  
 254814                            100                            105  
 254817 <210> SEQ ID NO: 4826  
 254818 <211> LENGTH: 136  
 254819 <212> TYPE: PRT  
 254820 <213> ORGANISM: Homo sapiens

*First appearance. Second appearance, with  
40074826*

## E--&gt; 254822 &lt;400&gt; SEQUENCE: 449

254823 Met Trp Leu Glu Val Arg Ala Leu Leu Leu Ser Cys Val Arg Val Phe  
 254824 1                            5                            10                            15  
 254825 Gln His Gly Thr Asp Gly Ser Ser Gly His Ser Leu Ser Gln Gly Leu  
 254826                            20                            25                            30  
 254827 Ala Arg Leu Arg His Asp Gly Pro Ser Pro Ala Leu Thr Thr Lys  
 254828                            35                            40                            45  
 254829 Ser Gly Arg Val Glu Phe Ala Val Asn Ser Ala Val Pro Met Glu Thr  
 254830                            50                            55                            60  
 254831 Cys Val Val Ser Glu Gln Tyr Leu Leu Glu Leu Val Gln Thr Pro  
 254832 65                            70                            75                            80  
 254833 Arg Leu Pro Ser Gly Thr Thr Trp Ser Thr Ser Pro Arg Glu Ala Ala  
 254834                            85                            90                            95  
 254835 Ala Leu Arg Gly Cys Pro Ala Gln Trp Pro Leu Ser Arg Val Ser Leu  
 254836                            100                            105                            110  
 254837 Gln Glu Ala Ser Glu Gln Ser Leu Lys Pro Gly Met Ala Pro Ser Pro

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

254838 115 120 125  
 254839 Cys Cys His His Cys Val Leu Thr  
 254840 130 135  
 254843 <210> SEQ ID NO: 4827  
 254844 <211> LENGTH: 250  
 254845 <212> TYPE: PRT  
 254846 <213> ORGANISM: Homo sapiens  
 E--> 254848 <400> SEQUENCE: 450  
 254849 Met Ala Glu Gly Gly Ala Ser Lys Gly Gly Gly Glu Glu Pro Gly Lys  
 254850 1 5 10 15  
 254851 Leu Pro Glu Pro Ala Glu Glu Glu Ser Gln Val Leu Arg Gly Thr Gly  
 254852 20 25 30  
 254853 His Cys Lys Trp Phe Asn Val Arg Met Gly Phe Gly Phe Ile Ser Met  
 254854 35 40 45  
 254855 Ile Asn Arg Glu Gly Ser Pro Leu Asp Ile Pro Val Asp Val Phe Val  
 254856 50 55 60  
 254857 His Gln Ser Lys Leu Phe Met Glu Gly Phe Arg Ser Leu Lys Glu Gly  
 254858 65 70 75 80  
 254859 Glu Pro Val Glu Phe Thr Phe Lys Lys Ser Ser Lys Gly Leu Glu Ser  
 254860 85 90 95  
 254861 Ile Arg Val Thr Gly Pro Gly Gly Ser Pro Cys Leu Gly Ser Glu Arg  
 254862 100 105 110  
 254863 Arg Pro Lys Gly Lys Thr Leu Gln Lys Arg Lys Pro Lys Gly Asp Arg  
 254864 115 120 125  
 254865 Cys Tyr Asn Cys Gly Gly Leu Asp His His Ala Lys Glu Cys Ser Leu  
 254866 130 135 140  
 254867 Pro Pro Gln Pro Lys Lys Cys His Tyr Cys Gln Ser Ile Met His Met  
 254868 145 150 155 160  
 254869 Val Ala Asn Cys Pro His Lys Asn Val Ala Gln Pro Pro Ala Ser Ser  
 254870 165 170 175  
 254871 Gln Gly Arg Gln Glu Ala Glu Ser Gln Pro Cys Thr Ser Thr Leu Pro  
 254872 180 185 190  
 254873 Arg Glu Val Gly Gly Gly His Gly Cys Thr Ser Pro Pro Phe Pro Gln  
 254874 195 200 205  
 254875 Glu Ala Arg Ala Glu Ile Ser Glu Arg Ser Gly Arg Ser Pro Gln Glu  
 254876 210 215 220  
 254877 Ala Ser Ser Thr Lys Ser Ser Ile Ala Pro Glu Glu Gln Ser Lys Lys  
 254878 225 230 235 240  
 254879 Gly Pro Ser Val Gln Lys Arg Lys Lys Thr  
 254880 245 250  
 254883 <210> SEQ ID NO: 4828  
 254884 <211> LENGTH: 748  
 254885 <212> TYPE: PRT  
 254886 <213> ORGANISM: Homo sapiens  
 E--> 254888 <400> SEQUENCE: 451  
 254889 Met Lys Gln Met His Glu Trp Asn Phe Thr Ala Ser Ser Ile Lys Gly  
 254890 1 5 10 15  
 254891 Ile Ser Leu Ser Lys Phe Asp Glu Arg Cys Cys Phe Leu Tyr Val His  
 254892 20 25 30

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Ylsq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

```

254893 Asp Asn Ser Asp Asp Phe Gln Ile Tyr Phe Ser Thr Glu Glu Gln Cys
254894          35          40          45
254895 Ser Arg Phe Phe Ser Leu Val Lys Glu Met Ile Thr Asn Thr Ala Gly
254896          50          55          60
254897 Ser Thr Val Glu Leu Glu Gly Glu Thr Asp Gly Asp Thr Leu Glu Tyr
254898        65          70          75          80
254899 Glu Tyr Asp His Asp Ala Asn Gly Glu Arg Val Val Leu Gly Lys Gly
254900          85          90          95
254901 Thr Tyr Gly Ile Val Tyr Ala Gly Arg Asp Leu Ser Asn Gln Val Arg
254902          100          105          110
254903 Ile Ala Ile Lys Glu Ile Pro Glu Arg Asp Ser Arg Tyr Ser Gln Pro
254904          115          120          125
254905 Leu His Glu Glu Ile Ala Leu His Lys Tyr Leu Lys His Arg Asn Ile
254906          130          135          140
254907 Val Gln Tyr Leu Gly Ser Val Ser Glu Asn Gly Tyr Ile Lys Ile Phe
254908        145          150          155          160
254909 Met Glu Gln Val Pro Gly Gly Ser Leu Ser Ala Leu Leu Arg Ser Lys
254910          165          170          175
254911 Trp Gly Pro Met Lys Glu Pro Thr Ile Lys Phe Tyr Thr Lys Gln Ile
254912          180          185          190
254913 Leu Glu Gly Leu Lys Tyr Leu His Glu Asn Gln Ile Val His Arg Asp
254914          195          200          205
254915 Ile Lys Gly Asp Asn Val Leu Val Asn Thr Tyr Ser Gly Val Val Lys
254916          210          215          220
254917 Ile Ser Asp Phe Gly Thr Ser Lys Arg Leu Ala Gly Val Asn Pro Cys
254918        225          230          235          240
254919 Thr Glu Thr Phe Thr Gly Thr Leu Gln Tyr Met Ala Pro Glu Ile Ile
254920          245          250          255
254921 Asp Gln Gly Pro Arg Gly Tyr Gly Ala Pro Ala Asp Ile Trp Ser Leu
254922          260          265          270
254923 Gly Cys Thr Ile Ile Glu Met Ala Thr Ser Lys Pro Pro Phe His Glu
254924          275          280          285
254925 Leu Gly Glu Pro Gln Ala Ala Met Phe Lys Val Gly Met Phe Lys Ile
254926          290          295          300
254927 His Pro Glu Ile Pro Glu Ala Leu Ser Ala Glu Ala Arg Ala Phe Ile
254928        305          310          315          320
254929 Leu Ser Cys Phe Glu Pro Asp Pro His Lys Arg Ala Thr Thr Ala Glu
254930          325          330          335
254931 Leu Leu Arg Glu Gly Phe Leu Arg Gln Val Asn Lys Gly Lys Lys Asn
254932          340          345          350
254933 Arg Ile Ala Phe Lys Pro Ser Glu Gly Pro Arg Gly Val Val Leu Ala
254934          355          360          365
254935 Leu Pro Thr Gln Gly Glu Pro Met Ala Thr Ser Ser Ser Glu His Gly
254936          370          375          380
254937 Ser Val Ser Pro Asp Ser Asp Ala Gln Pro Asp Ala Leu Phe Glu Arg
254938        385          390          395          400
254939 Thr Arg Ala Pro Arg His His Leu Gly His Leu Leu Ser Val Pro Asp
254940          405          410          415
254941 Glu Ser Ser Ala Leu Glu Asp Arg Gly Leu Ala Ser Ser Pro Glu Asp

```

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

254942                   420                   425                   430  
 254943 Arg Asp Gln Gly Leu Phe Leu Leu Arg Lys Asp Ser Glu Arg Arg Ala  
 254944                   435                   440                   445  
 254945 Ile Leu Tyr Lys Ile Leu Trp Glu Glu Gln Asn Gln Val Ala Ser Asn  
 254946                   450                   455                   460  
 254947 Leu Gln Glu Cys Val Ala Gln Ser Ser Glu Glu Leu His Leu Ser Val  
 254948 465                   470                   475                   480  
 254949 Gly His Ile Lys Gln Ile Ile Gly Ile Leu Arg Asp Phe Ile Arg Ser  
 254950                   485                   490                   495  
 254951 Pro Glu His Arg Val Met Ala Thr Thr Ile Ser Lys Leu Lys Val Asp  
 254952                   500                   505                   510  
 254953 Leu Asp Phe Asp Ser Ser Ser Ile Ser Gln Ile His Leu Val Leu Phe  
 254954                   515                   520                   525  
 254955 Gly Phe Gln Asp Ala Val Asn Lys Ile Leu Arg Asn His Leu Ile Arg  
 254956                   530                   535                   540  
 254957 Pro His Trp Met Phe Ala Met Asp Asn Ile Ile Arg Arg Ala Val Gln  
 254958 545                   550                   555                   560  
 254959 Ala Ala Val Thr Ile Leu Ile Pro Glu Leu Arg Ala His Phe Glu Pro  
 254960                   565                   570                   575  
 254961 Thr Cys Glu Thr Glu Gly Val Asp Lys Asp Met Asp Glu Ala Glu Glu  
 254962                   580                   585                   590  
 254963 Gly Tyr Pro Pro Ala Thr Gly Pro Gly Gln Glu Ala Gln Pro His Gln  
 254964                   595                   600                   605  
 254965 Gln His Leu Ser Leu Gln Leu Gly Glu Leu Arg Gln Glu Thr Asn Arg  
 254966                   610                   615                   620  
 254967 Leu Leu Glu His Leu Val Glu Lys Glu Arg Glu Tyr Gln Asn Leu Leu  
 254968 625                   630                   635                   640  
 254969 Arg Gln Thr Leu Glu Gln Lys Thr Gln Glu Leu Tyr His Leu Gln Leu  
 254970                   645                   650                   655  
 254971 Lys Leu Lys Ser Asn Cys Ile Thr Glu Asn Pro Ala Gly Pro Tyr Gly  
 254972                   660                   665                   670  
 254973 Gln Arg Thr Asp Lys Glu Leu Ile Asp Trp Leu Arg Leu Gln Gly Ala  
 254974                   675                   680                   685  
 254975 Asp Ala Lys Thr Ile Glu Lys Ile Val Glu Glu Gly Tyr Thr Leu Ser  
 254976                   690                   695                   700  
 254977 Asp Ile Leu Asn Glu Ile Thr Lys Glu Asp Leu Arg Tyr Leu Arg Leu  
 254978 705                   710                   715                   720  
 254979 Arg Gly Gly Leu Leu Cys Arg Leu Trp Ser Ala Val Ser Gln Tyr Arg  
 254980                   725                   730                   735  
 254981 Arg Ala Gln Glu Ala Ser Glu Thr Lys Asp Lys Ala  
 254982                   740                   745  
 254985 <210> SEQ ID NO: 4829  
 254986 <211> LENGTH: 572  
 254987 <212> TYPE: PRT  
 254988 <213> ORGANISM: Homo sapiens  
 E--> 254990 <400> SEQUENCE: 452  
 254991 Met Cys His Phe Lys Leu Val Ala Ile Val Gly Tyr Leu Ile Arg Leu  
 254992     1                   5                   10                   15  
 254993 Ser Ile Lys Ser Ile Gln Ile Glu Ala Asp Asn Cys Val Thr Asp Ser

*Appears twice*

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

254994		20		25		30
254995	Leu Thr Ile Tyr Asp Ser Leu Leu Pro Ile Arg Ser Ser Ile Leu Tyr					
254996		35		40		45
254997	Arg Ile Cys Glu Pro Thr Arg Thr Leu Met Ser Phe Val Ser Thr Asn					
254998		50		55		60
254999	Asn Leu Met Leu Val Thr Phe Lys Ser Pro His Ile Arg Arg Leu Ser					
255000		65		70		75
255001	Gly Ile Arg Ala Tyr Phe Glu Val Ile Pro Glu Gln Lys Cys Glu Asn					
255002		85		90		95
255003	Thr Val Leu Val Lys Asp Ile Thr Gly Phe Glu Gly Lys Ile Ser Ser					
255004		100		105		110
255005	Pro Tyr Tyr Pro Ser Tyr Tyr Pro Pro Lys Cys Lys Cys Thr Trp Lys					
255006		115		120		125
255007	Phe Gln Thr Ser Leu Ser Thr Leu Gly Ile Ala Leu Lys Phe Tyr Asn					
255008		130		135		140
255009	Tyr Ser Ile Thr Lys Lys Ser Met Lys Gly Cys Glu His Gly Trp Trp					
255010		145		150		155
255011	Glu Ile Asn Glu His Met Tyr Cys Gly Ser Tyr Met Asp His Gln Thr					
255012		165		170		175
255013	Ile Phe Arg Val Pro Ser Pro Leu Val His Ile Gln Leu Gln Cys Ser					
255014		180		185		190
255015	Ser Arg Leu Ser Asp Lys Pro Leu Leu Ala Glu Tyr Gly Ser Tyr Asn					
255016		195		200		205
255017	Ile Ser Gln Pro Cys Pro Val Gly Ser Phe Arg Cys Ser Ser Gly Leu					
255018		210		215		220
255019	Cys Val Pro Gln Ala Gln Arg Cys Asp Gly Val Asn Asp Cys Phe Asp					
255020		225		230		235
255021	Glu Ser Asp Glu Leu Phe Cys Val Ser Pro Gln Pro Ala Cys Asn Thr					
255022		245		250		255
255023	Ser Ser Phe Arg Gln His Gly Pro Leu Ile Cys Asp Gly Phe Arg Asp					
255024		260		265		270
255025	Cys Glu Asn Gly Arg Asp Glu Gln Asn Cys Thr Gln Ser Ile Pro Cys					
255026		275		280		285
255027	Asn Asn Arg Thr Phe Lys Cys Gly Asn Asp Ile Cys Phe Arg Lys Gln					
255028		290		295		300
255029	Asn Ala Lys Cys Asp Gly Thr Val Asp Cys Pro Asp Gly Ser Asp Glu					
255030		305		310		315
255031	Glu Gly Cys Thr Cys Ser Arg Ser Ser Ser Ala Leu His Arg Ile Ile					
255032		325		330		335
255033	Gly Gly Thr Asp Thr Leu Glu Gly Gly Trp Pro Trp Gln Val Ser Leu					
255034		340		345		350
255035	His Phe Val Gly Ser Ala Tyr Cys Gly Ala Ser Val Ile Ser Arg Glu					
255036		355		360		365
255037	Trp Leu Leu Ser Ala Ala His Cys Phe His Gly Asn Arg Leu Ser Asp					
255038		370		375		380
255039	Pro Thr Pro Trp Thr Ala His Leu Gly Met Tyr Val Gln Gly Asn Ala					
255040		385		390		395
255041	Lys Phe Val Ser Pro Val Arg Arg Ile Val Val His Glu Tyr Tyr Asn					
255042		405		410		415

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US(Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

255043 Ser Gln Thr Phe Asp Tyr Asp Ile Ala Leu Leu Gln Leu Ser Ile Ala  
 255044 420 425 430  
 255045 Trp Pro Glu Thr Leu Lys Gln Leu Ile Gln Pro Ile Cys Ile Pro Pro  
 255046 435 440 445  
 255047 Thr Gly Gln Arg Val Arg Ser Gly Glu Lys Cys Trp Val Thr Gly Trp  
 255048 450 455 460  
 255049 Gly Arg Arg His Glu Ala Asp Asn Lys Gly Ser Leu Val Leu Gln Gln  
 255050 465 470 475 480  
 255051 Ala Glu Val Glu Leu Ile Asp Gln Thr Leu Cys Val Ser Thr Tyr Gly  
 255052 485 490 495  
 255053 Ile Ile Thr Ser Arg Met Leu Cys Ala Gly Ile Met Ser Gly Lys Arg  
 255054 500 505 510  
 255055 Asp Ala Cys Lys Gly Asp Ser Gly Gly Pro Leu Ser Cys Arg Arg Lys  
 255056 515 520 525  
 255057 Ser Asp Gly Lys Trp Ile Leu Thr Gly Ile Val Ser Trp Gly His Gly  
 255058 530 535 540  
 255059 Cys Gly Arg Pro Asn Phe Pro Gly Val Tyr Thr Arg Val Ser Asn Phe  
 255060 545 550 555 560  
 255061 Val Pro Trp Ile His Lys Tyr Val Pro Ser Leu Leu  
 255062 565 570  
 255065 <210> SEQ ID NO: 4830  
 255066 <211> LENGTH: 134  
 255067 <212> TYPE: PRT  
 255068 <213> ORGANISM: Homo sapiens

E--&gt; 255070 &lt;400&gt; SEQUENCE: 453

255071 Met Val Gly Leu Leu Phe His Ala Pro Lys Ala Pro Glu Met Ala Pro  
 255072 1 5 10 15  
 255073 Leu Arg Cys Cys Ile Met Asn Lys Ile Ile Met Val Arg Arg Pro Lys  
 255074 20 25 30  
 255075 Gln Ser Thr Ala Asp Tyr Gly Met Arg Thr Ser Gly Pro Val Glu Ser  
 255076 35 40 45  
 255077 Gly Leu Ser Ala Asp Ser Leu Gln Leu Leu Cys Ser Tyr Ala Ala Ile  
 255078 50 55 60  
 255079 Lys Asn Ser Ala Glu Leu Leu Met Val Gly Pro Gln Gly Met Arg Pro  
 255080 65 70 75 80  
 255081 Ala Thr Gly Gln Asp Leu Leu Cys Arg Pro Cys Leu Ser His Asp Leu  
 255082 85 90 95  
 255083 Pro Gly Pro Leu His Pro Pro Arg Gly Leu Ser Gly Ser Ser Ser Leu  
 255084 100 105 110  
 255085 Leu Ile Ser Pro Arg Leu Gln Asp Val Ser Leu Gln Leu Val His Pro  
 255086 115 120 125  
 255087 Thr Pro Glu Glu Ser Phe  
 255088 130  
 255091 <210> SEQ ID NO: 4831  
 255092 <211> LENGTH: 184  
 255093 <212> TYPE: PRT  
 255094 <213> ORGANISM: Homo sapiens

E--&gt; 255096 &lt;400&gt; SEQUENCE: 454

255097 Met Pro Phe Arg Lys Ala Cys Gly Pro Lys Leu Thr Asn Ser Pro Thr



## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US(Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

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255098      1              5              10              15
255099 Val Ile Val Met Val Gly Leu Pro Ala Arg Gly Lys Thr Tyr Ile Ser
255100              20              25              30
255101 Lys Lys Leu Thr Arg Tyr Leu Trp Ile Gly Val Pro Thr Lys Val
255102              35              40              45
255103 Phe Asn Val Gly Glu Tyr Arg Arg Glu Ala Val Lys Gln Tyr Ser Ser
255104              50              55              60
255105 Tyr Asn Phe Phe Arg Pro Asp Asn Glu Glu Ala Met Lys Val Arg Lys
255106      65              70              75              80
255107 Gln Cys Ala Leu Ala Ala Leu Arg Asp Val Lys Ser Tyr Leu Ala Lys
255108              85              90              95
255109 Glu Gly Gly Gln Ile Ala Val Phe Asp Ala Thr Asn Thr Thr Arg Glu
255110              100             105             110
255111 Arg Arg His Met Ile Leu His Phe Ala Lys Glu Asn Asp Phe Lys Ala
255112              115             120             125
255113 Phe Phe Ile Glu Ser Val Cys Asp Asp Pro Thr Val Val Ala Ser Asn
255114      130             135             140
255115 Ile Met Gln Lys Ala Phe Gln Arg Asp Leu Ser Ala Thr Pro Leu Trp
255116      145             150             155             160
255117 Cys Cys Arg Lys Leu Lys Ser Pro Ala Arg Ile Thr Lys Thr Ala Thr
255118              165             170             175
255119 Arg Gln Lys Pro Trp Thr Thr Ser
255120              180
255123 <210> SEQ ID NO: 4832
255124 <211> LENGTH: 493
255125 <212> TYPE: PRT
255126 <213> ORGANISM: Homo sapiens

```

*Appear twice*

E--&gt; 255128 &lt;400&gt; SEQUENCE: 455

```

255129 Met Gly Pro Thr Ser Val Leu Arg Ala Gly Leu Thr Pro Ser Cys Leu
255130      1              5              10              15
255131 Pro Pro Pro Ser Gly Ala Thr Asn Gly Ser Val Ser Pro Leu Gly Arg
255132              20              25              30
255133 Ala Gln Arg Val Trp Thr Glu Pro Gly Gly Arg Gly Leu His Gly Ala
255134              35              40              45
255135 Thr Ala Ala Gly Pro Val Ala Ala Ala Cys Pro Leu Leu Ala Val Thr
255136      50              55              60
255137 Ala Thr Ala Pro Gly Gln Pro Ser Gly Ala Ser Thr Val Trp Val Arg
255138      65              70              75              80
255139 Glu Gly Gly Thr Ala Pro Ala Thr Arg Met Thr Val Pro Leu Ala Pro
255140              85              90              95
255141 Arg Thr Ser Glu Lys Cys Ser Val Leu Asn Leu Thr Ala Ser Leu Ser
255142              100             105             110
255143 Val Gly Asn Ser Thr Ser Gly Lys Arg Thr Gly Glu Ala Cys Ser Leu
255144      115             120             125
255145 Thr Cys Leu Ala Glu Gly Phe Asn Phe Tyr Thr Glu Arg Ala Ala Ala
255146      130             135             140
255147 Val Val Asp Gly Thr Pro Cys Arg Pro Asp Thr Val Asp Ile Cys Val
255148      145             150             155             160
255149 Ser Gly Glu Cys Lys His Val Gly Cys Asp Arg Val Leu Gly Ser Asp

```

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

```

255150          165          170          175
255151 Leu Arg Glu Asp Lys Cys Arg Val Cys Gly Gly Asp Gly Ser Ala Cys
255152          180          185          190
255153 Glu Thr Ile Glu Gly Val Phe Ser Pro Ala Ser Pro Gly Ala Gly Tyr
255154          195          200          205
255155 Glu Asp Val Val Trp Ile Pro Lys Gly Ser Val His Ile Phe Ile Gln
255156          210          215          220
255157 Asp Leu Asn Leu Ser Leu Asn His Leu Ala Leu Lys Gly Asp Gln Glu
255158 225          230          235          240
255159 Ser Leu Leu Leu Glu Gly Leu Pro Gly Thr Pro Gln Pro His Arg Leu
255160          245          250          255
255161 Pro Leu Ala Gly Thr Thr Phe Gln Leu Arg Gln Gly Pro Asp Gln Val
255162          260          265          270
255163 Gln Ser Leu Glu Ala Leu Gly Pro Ile Asn Ala Ser Leu Ile Val Met
255164          275          280          285
255165 Val Leu Ala Arg Thr Glu Leu Pro Ala Leu Arg Tyr Arg Phe Asn Ala
255166          290          295          300
255167 Pro Ile Ala Arg Asp Ser Leu Pro Pro Tyr Ser Trp His Tyr Ala Pro
255168 305          310          315          320
255169 Trp Thr Arg Cys Ser Ala Gln Cys Ala Gly Gly Ser Gln Val Gln Ala
255170          325          330          335
255171 Val Glu Cys Arg Asn Gln Leu Asp Gly Ser Ala Val Ala Pro His Tyr
255172          340          345          350
255173 Cys Ser Ala His Ser Lys Leu Pro Lys Arg Gln Arg Ala Cys Asn Thr
255174          355          360          365
255175 Glu Pro Cys Pro Pro Asp Trp Val Val Gly Asn Trp Ser Leu Cys Ser
255176          370          375          380
255177 Arg Ser Cys Asp Ala Gly Val Arg Ser Arg Ser Val Val Cys Gln Arg
255178 385          390          395          400
255179 Arg Val Ser Ala Ala Glu Glu Lys Ala Leu Asp Asp Ser Ala Cys Pro
255180          405          410          415
255181 Gln Pro Arg Pro Pro Val Leu Glu Ala Cys His Gly Pro Thr Cys Pro
255182          420          425          430
255183 Pro Glu Trp Ala Ala Leu Asp Trp Ser Glu Cys Thr Pro Ser Cys Gly
255184          435          440          445
255185 Pro Gly Leu Arg His Arg Val Val Leu Cys Lys Ser Ala Asp His Arg
255186          450          455          460
255187 Ala Thr Leu Pro Pro Ala His Cys Ser Pro Ala Ala Lys Pro Pro Ala
255188 465          470          475          480
255189 Thr Met Arg Cys Asn Leu Arg Arg Cys Pro Pro Ala Arg
255190          485          490
255193 <210> SEQ ID NO: 4833
255194 <211> LENGTH: 803
255195 <212> TYPE: PRT
255196 <213> ORGANISM: Homo sapiens
E--> 255198 <400> SEQUENCE: (456)
255199 Met Ile Ser Ala Gln Cys Asn Leu Cys Leu Pro Gly Ser Gly Asp Ser
255200 1          5          10          15
255201 Cys Ala Ser Gly Ser Gln Leu Ala Gly Thr Thr Val Ala Gly Pro Ala

```

*Appears twice*

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US(Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

255202		20		25		30	
255203	His	Pro	Glu	Ser	Leu	Thr	Leu
255204			35			40	
255205	Lys	Glu	Trp	Pro	Asp	Ser	His
255206		50			55		60
255207	Pro	Glu	Ser	Ser	Asp	Gly	Pro
255208	65			70		75	
255209	Leu	Ser	Ser	Arg	Trp	Trp	Pro
255210			85			90	
255211	Pro	Arg	Ser	Pro	Pro	Arg	Gly
255212			100			105	
255213	Thr	Tyr	Thr	Gly	Ala	Asp	Gly
255214			115			120	
255215	Arg	Phe	Leu	Leu	Leu	Arg	Lys
255216		130			135		140
255217	Arg	Leu	Glu	Ala	Pro	Ser	Thr
255218	145			150		155	
255219	Tyr	Met	Ile	Glu	Glu	Ser	Ile
255220			165			170	
255221	Pro	Gly	Gln	Leu	Leu	Trp	Thr
255222			180			185	
255223	Leu	Glu	Glu	Leu	Ser	Gln	Ala
255224		195			200		205
255225	Glu	Gln	Pro	Pro	Pro	Leu	Pro
255226		210			215		220
255227	Asp	Asn	Leu	Ser	Pro	Ser	Leu
255228	225			230		235	
255229	Gly	Arg	Ser	Leu	Ser	Gln	Glu
255230			245			250	
255231	Thr	Ala	Gly	Pro	Gln	Pro	Leu
255232			260			265	
255233	Leu	Val	Asp	Leu	Arg	Arg	Cys
255234		275			280		285
255235	Cys	Pro	Leu	Leu	Gln	Arg	Pro
255236		290			295		300
255237	Asn	Ser	Gly	Arg	Cys	Phe	Tyr
255238	305			310		315	
255239	Trp	Lys	Pro	Pro	Arg	Arg	Ser
255240			325			330	
255241	Glu	Gly	Thr	Gln	Thr	Leu	Lys
255242			340			345	
255243	Ala	Lys	Gly	Phe	Arg	Ser	Asp
255244		355			360		365
255245	Gln	Gly	Ser	Leu	Ser	Leu	Ser
255246		370			375		380
255247	Ala	Leu	Gln	Ala	Pro	Arg	Pro
255248	385			390		395	
255249	Glu	Val	Glu	Lys	Ser	Gly	Leu
255250			405			410	

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

255251	Gly	Arg	Lys	Leu	Arg	Lys	Asn	Trp	Gly	Pro	Ser	Trp	Val	Val	Leu	Thr
255252				420					425					430		
255253	Gly	Asn	Ser	Leu	Val	Phe	Tyr	Arg	Glu	Pro	Pro	Pro	Thr	Ala	Pro	Ser
255254			435					440					445			
255255	Ala	Gly	Trp	Gly	Pro	Ala	Gly	Ser	Arg	Pro	Glu	Ser	Ser	Val	Asp	Leu
255256		450					455	/				460				
255257	Arg	Gly	Ala	Ala	Leu	Ala	His	Gly	Arg	His	Leu	Ser	Ser	Arg	Arg	Asn
255258	465					470				475						480
255259	Val	Leu	His	Ile	Arg	Thr	Ile	Pro	Gly	His	Glu	Phe	Leu	Leu	Gln	Ser
255260				485					490						495	
255261	Asp	His	Glu	Thr	Glu	Leu	Arg	Ala	Trp	His	Arg	Ala	Leu	Arg	Thr	Val
255262				500					505					510		
255263	Ile	Glu	Arg	Leu	Asp	Arg	Glu	Asn	Pro	Leu	Glu	Leu	Arg	Leu	Ser	Gly
255264			515					520					525			
255265	Ser	Gly	Pro	Ala	Glu	Leu	Ser	Ala	Gly	Glu	Asp	Glu	Glu	Glu	Glu	Ser
255266		530					535					540				
255267	Glu	Leu	Val	Ser	Lys	Pro	Leu	Leu	Arg	Leu	Ser	Ser	Arg	Arg	Ser	Ser
255268	545					550				555						560
255269	Ile	Arg	Gly	Pro	Glu	Gly	Thr	Glu	Gln	Asn	Arg	Val	Arg	Asn	Lys	Leu
255270				565					570						575	
255271	Lys	Arg	Leu	Ile	Ala	Lys	Arg	Pro	Pro	Leu	Gln	Ser	Leu	Gln	Glu	Arg
255272				580					585					590		
255273	Gly	Leu	Leu	Arg	Asp	Gln	Val	Phe	Gly	Cys	Gln	Leu	Glu	Ser	Leu	Cys
255274			595					600					605			
255275	Gln	Arg	Glu	Gly	Asp	Thr	Val	Pro	Ser	Phe	Leu	Arg	Leu	Cys	Ile	Ala
255276		610					615					620				
255277	Ala	Val	Asp	Lys	Arg	Gly	Leu	Asp	Val	Asp	Gly	Ile	Tyr	Arg	Val	Ser
255278	625					630				635					640	
255279	Gly	Asn	Leu	Ala	Val	Val	Gln	Lys	Leu	Arg	Phe	Leu	Val	Asp	Arg	Glu
255280				645					650						655	
255281	Arg	Ala	Val	Thr	Ser	Asp	Gly	Arg	Tyr	Val	Phe	Pro	Glu	Gln	Pro	Gly
255282			660						665					670		
255283	Gln	Glu	Gly	Arg	Leu	Asp	Leu	Asp	Ser	Thr	Glu	Trp	Asp	Asp	Ile	His
255284			675					680					685			
255285	Val	Val	Thr	Gly	Ala	Leu	Lys	Leu	Phe	Leu	Arg	Glu	Leu	Pro	Gln	Pro
255286		690					695					700				
255287	Leu	Val	Pro	Pro	Leu	Leu	Leu	Pro	His	Phe	Arg	Ala	Ala	Leu	Ala	Leu
255288	705					710					715					720
255289	Ser	Gln	Ile	Gln	Glu	Leu	Ile	Gly	Ser	Met	Pro	Lys	Pro	Asn	His	Asp
255290				725					730					735		
255291	Thr	Leu	Arg	Tyr	Leu	Leu	Glu	His	Leu	Cys	Arg	Val	Ile	Ala	His	Ser
255292			740					745					750			
255293	Asp	Lys	Asn	Arg	Met	Thr	Pro	His	Asn	Leu	Gly	Ile	Val	Phe	Gly	Pro
255294			755					760					765			
255295	Thr	Leu	Phe	Arg	Pro	Glu	Gln	Glu	Thr	Ser	Asp	Pro	Ala	Ala	His	Ala
255296		770					775					780				
255297	Leu	Tyr	Pro	Gly	Gln	Leu	Val	Gln	Leu	Met	Leu	Thr	Asn	Phe	Thr	Ser
255298	785					790				795						800
255299	Leu	Phe	Pro													

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

255303 &lt;210&gt; SEQ ID NO: 4834

255304 &lt;211&gt; LENGTH: 892

255305 &lt;212&gt; TYPE: PRT

255306 &lt;213&gt; ORGANISM: Homo sapiens

*Appears twice*E--> 255308 <400> SEQUENCE 457

```

255309 Met Gln Asp Leu Lys Lys Tyr Lys Lys Lys Lys Gln Lys Arg Met Lys
255310 1 5 10 15
255311 Ser Arg Lys Val Arg Lys Pro Thr Glu Asn Gln Glu Lys Asn Ile Arg
255312 20 25 30
255313 Lys Arg Glu Arg Arg Lys Lys Ser Lys Arg Arg Lys Arg Glu Lys His
255314 35 40 45
255315 Lys His Asn Ser Pro Ser Ser Asp Asp Ser Ser Asp Tyr Ser Leu Asp
255316 50 55 60
255317 Ser Asp Val Glu His Thr Glu Ser Ser His Lys Lys Arg Thr Gly Phe
255318 65 70 75 80
255319 Tyr Arg Asp Tyr Asp Ile Pro Phe Thr Gln Arg Gly His Ile Ser Gly
255320 85 90 95
255321 Ser Tyr Ile Thr Ser Lys Lys Gly Gln His Asn Lys Lys Phe Lys Ser
255322 100 105 110
255323 Lys Glu Tyr Asp Glu Tyr Ser Thr Ser Asp Asp Asn Phe Gly Asn
255324 115 120 125
255325 Tyr Ser Asp Asp Asn Phe Gly Asn Tyr Gly Gln Glu Thr Glu Glu Asp
255326 130 135 140
255327 Phe Ala Asn Gln Leu Lys Gln Tyr Arg Gln Ala Lys Glu Thr Ser Asn
255328 145 150 155 160
255329 Ile Ala Leu Gly Ser Ser Phe Ser Lys Glu Ser Gly Lys Lys Gln Arg
255330 165 170 175
255331 Met Lys Gly Val Gln Gln Gly Ile Glu Gln Arg Val Lys Ser Phe Asn
255332 180 185 190
255333 Val Gly Arg Gly Arg Gly Leu Pro Lys Lys Ile Lys Arg Lys Glu Arg
255334 195 200 205
255335 Gly Gly Arg Thr Asn Lys Gly Pro Asn Val Phe Ser Val Ser Asp Asp
255336 210 215 220
255337 Phe Gln Glu Tyr Asn Lys Pro Gly Lys Lys Trp Lys Val Met Thr Gln
255338 225 230 235 240
255339 Glu Phe Ile Asn Gln His Thr Val Glu His Lys Gly Lys Gln Ile Cys
255340 245 250 255
255341 Lys Tyr Phe Leu Glu Gly Arg Cys Ile Lys Gly Asp Gln Cys Lys Phe
255342 260 265 270
255343 Asp His Asp Ala Glu Leu Glu Lys Arg Lys Glu Ile Cys Lys Phe Tyr
255344 275 280 285
255345 Leu Gln Gly Tyr Cys Thr Lys Gly Glu Asn Cys Ile Tyr Met His Asn
255346 290 295 300
255347 Glu Phe Pro Cys Lys Phe Tyr His Ser Gly Ala Lys Cys Tyr Gln Gly
255348 305 310 315 320
255349 Asp Asn Cys Lys Phe Ser His Asp Asp Leu Thr Lys Glu Thr Lys Lys
255350 325 330 335
255351 Leu Leu Asp Lys Val Leu Asn Thr Asp Glu Glu Leu Ile Asn Glu Asp
255352 340 345 350

```

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

```

255353 Glu Arg Glu Leu Glu Glu Leu Arg Lys Arg Gly Ile Thr Pro Leu Pro
255354           355           360           365
255355 Lys Pro Pro Pro Gly Val Gly Leu Leu Pro Thr Pro Pro Glu His Phe
255356           370           375           380
255357 Pro Phe Ser Asp Pro Glu Asp Asp Phe Gln Thr Asp Phe Ser Asp Asp
255358 385           390           395           400
255359 Phe Arg Lys Ile Pro Ser Leu Phe Glu Ile Val Val Lys Pro Thr Val
255360           405           410           415
255361 Asp Leu Ala His Lys Ile Gly Arg Lys Pro Pro Ala Phe Tyr Thr Ser
255362           420           425           430
255363 Ala Ser Pro Pro Gly Pro Gln Phe Gln Gly Ser Ser Pro His Pro Gln
255364           435           440           445
255365 His Ile Tyr Ser Ser Gly Ser Ser Pro Gly Pro Gly Pro Asn Met Ser
255366           450           455           460
255367 Gln Gly His Ser Ser Pro Val Met His Pro Gly Ser Pro Gly His His
255368 465           470           475           480
255369 Pro Cys Ala Gly Pro Pro Gly Leu Pro Val Pro Gln Ser Pro Pro Leu
255370           485           490           495
255371 Pro Pro Gly Pro Pro Glu Ile Val Gly Pro Gln Asn Gln Ala Gly Val
255372           500           505           510
255373 Leu Val Gln Pro Asp Thr Ser Leu Thr Pro Pro Ser Met Gly Gly Ala
255374           515           520           525
255375 Tyr His Ser Pro Gly Phe Pro Gly His Val Met Lys Val Pro Arg Glu
255376           530           535           540
255377 Asn His Cys Ser Pro Gly Ser Ser Tyr Gln Gln Ser Pro Gly Glu Met
255378 545           550           555           560
255379 Gln Leu Asn Thr Asn Tyr Glu Ser Leu Gln Asn Pro Ala Glu Phe Tyr
255380           565           570           575
255381 Asp Asn Tyr Tyr Ala Gln His Ser Ile His Asn Phe Gln Pro Pro Asn
255382           580           585           590
255383 Asn Ser Gly Asp Gly Met Trp His Gly Glu Phe Ala Gln Gln Gln Pro
255384           595           600           605
255385 Pro Val Gln Asp Ser Pro Asn His Gly Ser Gly Ser Asp Gly Ser
255386           610           615           620
255387 Ser Thr Arg Thr Gly His Gly Pro Leu Pro Val Pro Gly Leu Leu Pro
255388 625           630           635           640
255389 Ala Val Gln Arg Ala Leu Phe Val Arg Leu Thr Gln Arg Tyr Gln Glu
255390           645           650           655
255391 Asp Glu Glu Gln Thr Ser Thr Gln Pro His Arg Ala Pro Ser Lys Glu
255392           660           665           670
255393 Glu Asp Asp Thr Val Asn Trp Tyr Ser Ser Ser Glu Glu Glu Gly
255394           675           680           685
255395 Ser Ser Val Lys Ser Ile Leu Lys Thr Leu Gln Lys Gln Thr Glu Thr
255396           690           695           700
255397 Leu Arg Asn Gln Gln Gln Pro Ser Thr Glu Leu Ser Thr Pro Thr Asp
255398 705           710           715           720
255399 Pro Arg Leu Ala Lys Glu Lys Ser Lys Gly Asn Gln Val Val Asp Pro
255400           725           730           735
255401 Arg Leu Arg Thr Ile Pro Arg Gln Asp Ile Arg Lys Pro Ser Glu Ser

```

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

255402                   740                   745                   750  
 255403 Ala Pro Leu Asp Leu Arg Leu Ala Trp Asp Pro Arg Lys Leu Arg Gly  
 255404                   755                   760                   765  
 255405 Asn Gly Ser Gly His Ile Gly Ser Ser Val Gly Gly Ala Lys Phe Asp  
 255406                   770                   775                   780  
 255407 Leu His His Ala Asn Ala Gly Thr Asn Val Lys His Lys Arg Gly Asp  
 255408 785                   790                   795                   800  
 255409 Asp Asp Asp Glu Asp Thr Glu Arg Glu Leu Gly Glu Lys Ala Phe Leu  
 255410                   805                   810                   815  
 255411 Ile Pro Leu Asp Ala Ser Pro Gly Ile Met Leu Gln Asp Pro Arg Ser  
 255412                   820                   825                   830  
 255413 Gln Leu Arg Gln Phe Ser His Ile Lys Lys Asp Ile Thr Leu Thr Lys  
 255414                   835                   840                   845  
 255415 Pro Asn Phe Ala Lys His Ile Val Trp Ala Pro Glu Asp Leu Leu Pro  
 255416                   850                   855                   860  
 255417 Val Pro Leu Pro Lys Pro Asp Pro Val Ser Ser Ile Asn Leu Pro Leu  
 255419 865                   870                   875                   880  
 255420 Pro Pro Leu Ile Ala Asp Gln Arg Leu Asn Arg Leu  
 255421                   885                   890  
 255424 <210> SEQ ID NO: 4835  
 255425 <211> LENGTH: 891  
 255426 <212> TYPE: PRT  
 255427 <213> ORGANISM: Homo sapiens  
 E--> 255429 <400> SEQUENCE: 458  
 255430 Met Ala Leu Thr Gln Gly Pro Leu Thr Phe Arg Asp Val Ala Ile Glu  
 255431   1                   5                   10                   15  
 255432 Phe Ser Gln Glu Glu Trp Lys Ser Leu Asp Pro Val Gln Lys Ala Leu  
 255433                   20                   25                   30  
 255434 Tyr Trp Asp Val Met Leu Glu Asn Tyr Arg Asn Leu Val Phe Leu Gly  
 255435                   35                   40                   45  
 255436 Ile Leu Pro Lys Cys Met Thr Lys Glu Leu Pro Pro Ile Gly Asn Ser  
 255437   50                   55                   60  
 255438 Asn Thr Gly Glu Lys Cys Gln Thr Val Thr Leu Glu Arg His Glu Cys  
 255439   65                   70                   75                   80  
 255440 Tyr Asp Val Glu Asn Phe Tyr Leu Arg Glu Ile Gln Lys Asn Leu Gln  
 255441                   85                   90                   95  
 255442 Asp Leu Glu Phe Gln Trp Lys Asp Gly Glu Ile Asn Tyr Lys Glu Val  
 255443                   100                   105                   110  
 255444 Pro Met Thr Tyr Lys Asn Asn Leu Asn Gly Lys Arg Gly Gln His Ser  
 255445                   115                   120                   125  
 255446 Gln Glu Asp Val Glu Asn Lys Cys Ile Glu Asn Gln Leu Thr Leu Ser  
 255447   130                   135                   140  
 255448 Phe Gln Ser Arg Leu Thr Glu Leu Gln Lys Phe Gln Thr Glu Gly Lys  
 255449   145                   150                   155                   160  
 255450 Ile Tyr Glu Cys Asn Gln Ser Glu Lys Thr Val Asn Asn Ser Ser Leu  
 255451                   165                   170                   175  
 255452 Val Ser Pro Leu Gln Arg Ile Leu Pro Ser Val Gln Thr Asn Ile Ser  
 255453                   180                   185                   190  
 255454 Lys Lys Tyr Glu Asn Glu Phe Leu Gln Leu Ser Leu Pro Thr Gln Leu

## RAW SEQUENCE LISTING

DATE: 01/27/2004

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TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

255455	195						200						205					
255456	Glu	Lys	Thr	His	Ile	Arg	Glu	Lys	Pro	Tyr	Ile	Cys	Lys	Gly	Cys	Gly		
255457	210						215						220					
255458	Lys	Ala	Phe	Arg	Val	Ser	Ser	Ser	Leu	Ile	Asn	His	Gln	Met	Val	His		
255459	225						230						235					
255460	Thr	Thr	Glu	Lys	Pro	Tyr	Lys	Cys	Asn	Glu	Cys	Gly	Lys	Ala	Phe	His		
255461	245						250						255					
255462	Arg	Gly	Ser	Leu	Leu	Thr	Ile	His	Gln	Ile	Val	His	Thr	Arg	Gly	Lys		
255463	260						265						270					
255464	Pro	Tyr	Gln	Cys	Gly	Val	Cys	Gly	Lys	Ile	Phe	Arg	Gln	Asn	Ser	Asp		
255465	275						280						285					
255466	Leu	Val	Asn	His	Arg	Arg	Ser	His	Thr	Gly	Glu	Lys	Pro	Tyr	Lys	Cys		
255467	290						295						300					
255468	Asn	Glu	Cys	Gly	Lys	Ser	Phe	Ser	Gln	Ser	Tyr	Asn	Leu	Ala	Ile	His		
255469	305						310						315					
255470	Gln	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr	Lys	Cys	Asn	Glu	Cys	Gly		
255471	325						330						335					
255472	Lys	Thr	Phe	Lys	Gln	Gly	Ser	Cys	Leu	Thr	Thr	His	Gln	Ile	Ile	His		
255473	340						345						350					
255474	Thr	Gly	Glu	Lys	Pro	Tyr	Gln	Cys	Asp	Ile	Cys	Gly	Lys	Val	Phe	Arg		
255475	355						360						365					
255476	Gln	Asn	Ser	Asn	Leu	Val	Asn	His	Gln	Arg	Ile	His	Thr	Gly	Glu	Lys		
255477	370						375						380					
255478	Pro	Tyr	Lys	Cys	Asn	Ile	Cys	Gly	Lys	Ser	Phe	Ser	Gln	Ser	Ser	Asn		
255479	385						390						395					
255480	Leu	Ala	Thr	His	Gln	Thr	Val	His	Ser	Gly	Asn	Lys	Pro	Tyr	Lys	Cys		
255481	405						410						415					
255482	Asp	Glu	Cys	Gly	Lys	Thr	Phe	Lys	Arg	Ser	Ser	Ser	Leu	Thr	Thr	His		
255483	420						425						430					
255484	Gln	Val	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr	Thr	Cys	Asp	Val	Cys	Asp		
255485	435						440						445					
255486	Lys	Val	Phe	Ser	Gln	Arg	Ser	Gln	Leu	Ala	Arg	His	Gln	Arg	Gly	His		
255487	450						455						460					
255488	Thr	Gly	Glu	Lys	Pro	Tyr	Lys	Cys	Asn	Glu	Cys	Gly	Lys	Val	Phe	Ser		
255489	465						470						475					
255490	Gln	Thr	Ser	His	Leu	Val	Gly	His	Arg	Arg	Ile	His	Thr	Gly	Glu	Lys		
255491	485						490						495					
255492	Pro	Tyr	Lys	Cys	Asp	Lys	Cys	Gly	Lys	Ala	Phe	Lys	Gln	Gly	Ser	Leu		
255493	500						505						510					
255494	Leu	Thr	Arg	His	Lys	Ile	Ile	His	Thr	Arg	Glu	Lys	Arg	Tyr	Gln	Cys		
255495	515						520						525					
255496	Gly	Glu	Cys	Gly	Lys	Val	Phe	Ser	Glu	Asn	Ser	Cys	Leu	Val	Arg	His		
255497	530						535						540					
255498	Leu	Arg	Ile	His	Thr	Gly	Glu	Gln	Pro	Tyr	Lys	Cys	Asn	Val	Cys	Gly		
255499	545						550						555					
255500	Lys	Val	Phe	Asn	Tyr	Ser	Gly	Asn	Leu	Ser	Ile	His	Lys	Arg	Ile	Arg		
255501	565						570						575					
255502	Thr	Gly	Glu	Lys	Pro	Phe	Gln	Cys	Asn	Glu	Cys	Gly	Thr	Val	Phe	Arg		
255503	580						585						590					



## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

```

255504 Asn Tyr Ser Cys Leu Ala Arg His Leu Arg Ile His Thr Gly Gln Lys
255505          595          600          605
255506 Pro Tyr Lys Cys Asn Val Cys Gly Lys Val Phe Asn Asp Ser Gly Asn
255507          610          615          620
255508 Leu Ser Asn His Lys Arg Ile His Thr Gly Glu Lys Pro Phe Gln Cys
255509          625          630          635          640
255510 Asn Glu Cys Gly Lys Val Phe Ser Tyr Tyr Ser Cys Leu Ala Arg His
255511          645          650          655
255512 Arg Lys Ile His Ala Gly Glu Lys Pro Tyr Lys Cys Asn Asp Cys Gly
255513          660          665          670
255514 Lys Ala Tyr Thr Gln Arg Ser Ser Leu Thr Lys His Leu Ile Ile His
255515          675          680          685
255516 Thr Gly Glu Lys Pro Tyr Asn Cys Asn Glu Phe Gly Gly Ala Phe Ile
255517          690          695          700
255518 Gln Ser Ser Lys Leu Ala Arg Tyr His Arg Asn Pro Thr Gly Glu Lys
255519          705          710          715          720
255520 Pro His Lys Cys Ser His Cys Gly Arg Thr Phe Ser His Ile Thr Gly
255521          725          730          735
255522 Leu Thr Tyr His Gln Arg Arg His Thr Gly Glu Met Pro Tyr Lys Cys
255523          740          745          750
255524 Ile Glu Cys Gly Gln Val Phe Asn Ser Thr Ser Asn Leu Ala Arg His
255525          755          760          765
255526 Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Asn Glu Cys Gly
255527          770          775          780
255528 Lys Val Phe Arg His Gln Ser Thr Leu Ala Arg His Arg Ser Ile His
255529          785          790          795          800
255530 Thr Gly Glu Lys Pro Tyr Val Cys Ser Glu Cys Gly Lys Ala Phe Arg
255531          805          810          815
255532 Val Arg Ser Ile Leu Val Asn His Gln Lys Met His Thr Gly Asp Lys
255533          820          825          830
255534 Pro Tyr Lys Cys Asn Glu Cys Gly Lys Ala Phe Ile Glu Arg Ser Lys
255535          835          840          845
255536 Leu Val Tyr His Gln Arg Asn His Thr Gly Glu Lys Pro Tyr Lys Cys
255537          850          855          860
255538 Ile Glu Cys Gly Lys Ala Phe Gly Arg Phe Ser Cys Leu Asn Lys His
255539          865          870          875          880
255540 Gln Met Ile His Ser Gly Glu Lys Pro Tyr Lys
255541          885          890

```

255544 &lt;210&gt; SEQ ID NO: 4836

255545 &lt;211&gt; LENGTH: 374

255546 &lt;212&gt; TYPE: PRT

255547 &lt;213&gt; ORGANISM: Homo sapiens

*appears twice*

E--&gt; 255549 &lt;400&gt; SEQUENCE: 459

```

255550 Met Ile Glu Tyr Gln Ile Pro Val Ser Phe Lys Asp Val Val Val Gly
255551          1          5          10          15
255552 Phe Thr Gln Glu Glu Trp His Arg Leu Ser Pro Ala Gln Arg Ala Leu
255553          20          25          30
255554 Tyr Arg Asp Val Met Leu Glu Thr Tyr Ser Asn Leu Ala Ser Val Gly
255555          35          40          45

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

255556 Tyr Glu Gly Thr Lys Pro Asp Val Ile Leu Arg Leu Glu Gln Glu Glu  
 255557 50 55 60  
 255558 Ala Pro Trp Ile Gly Glu Ala Ala Cys Pro Gly Cys His Cys Trp Glu  
 255559 65 70 75 80  
 255560 Asp Ile Trp Arg Val Asn Ile Gln Arg Lys Arg Arg Gln Asp Met Leu  
 255561 85 90 95  
 255562 Leu Arg Pro Gly Ala Ala Ile Ser Lys Lys Thr Leu Pro Lys Glu Lys  
 255563 100 105 110  
 255564 Ser Cys Glu Tyr Asn Lys Phe Gly Lys Ile Ser Leu Leu Ser Thr Asp  
 255565 115 120 125  
 255566 Leu Phe Ser Ser Ile Gln Ser Pro Ser Asn Trp Asn Pro Cys Gly Lys  
 255567 130 135 140  
 255568 Asn Leu Asn His Asn Leu Asp Leu Ile Gly Phe Lys Arg Asn Cys Ala  
 255569 145 150 155 160  
 255570 Lys Lys Gln Asp Glu Cys Tyr Ala Tyr Gly Lys Leu Leu Gln Arg Ile  
 255571 165 170 175  
 255572 Asn His Gly Arg Arg Pro Asn Gly Glu Lys Pro Arg Gly Cys Ser His  
 255573 180 185 190  
 255574 Cys Glu Lys Ala Phe Thr Gln Asn Pro Ala Leu Met Tyr Lys Pro Ala  
 255575 195 200 205  
 255576 Val Ser Asp Ser Leu Leu Tyr Lys Arg Lys Arg Val Pro Thr Glu  
 255577 210 215 220  
 255578 Lys Pro His Val Cys Ser Glu Cys Gly Lys Ala Phe Cys Tyr Lys Ser  
 255579 225 230 235 240  
 255580 Glu Phe Ile Arg His Gln Arg Ser His Thr Gly Glu Lys Pro Tyr Gly  
 255581 245 250 255  
 255582 Cys Thr Asp Cys Gly Lys Ala Phe Ser His Lys Ser Thr Leu Ile Lys  
 255583 260 265 270  
 255584 His Gln Arg Ile His Thr Gly Val Arg Pro Phe Glu Cys Phe Phe Cys  
 255585 275 280 285  
 255586 Gly Lys Ala Phe Thr Gln Lys Ser His Arg Thr Glu His Gln Arg Thr  
 255587 290 295 300  
 255588 His Thr Gly Glu Arg Pro Phe Val Cys Ser Glu Cys Gly Lys Ser Phe  
 255589 305 310 315 320  
 255590 Gly Glu Lys Ser Tyr Leu Asn Val His Arg Lys Met His Thr Gly Glu  
 255591 325 330 335  
 255592 Arg Pro Tyr Arg Cys Arg Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser  
 255593 340 345 350  
 255594 Cys Leu Asn Lys His Trp Arg Thr His Phe Gly Glu Ser Ser Leu Arg  
 255595 355 360 365  
 255596 Ser Lys Ser Ser Asn Thr  
 255597 370  
 255600 <210> SEQ ID NO: 4837  
 255601 <211> LENGTH: 896  
 255602 <212> TYPE: PRT  
 255603 <213> ORGANISM: Homo sapiens  
 E--> 255605 <400> SEQUENCE 460  
 255606 Met Thr Glu Glu Ser Glu Glu Thr Val Leu Tyr Ile Glu His Arg Tyr  
 255607 1 5 10 15

*appears twice*

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

```

255608 Val Cys Ser Glu Cys Asn Gln Leu Tyr Gly Ser Leu Glu Glu Val Leu
255609          20          25          30
255610 Met His Gln Asn Ser His Val Pro Gln Gln His Phe Glu Leu Val Gly
255611          35          40          45
255612 Val Ala Asp Pro Gly Val Thr Val Ala Thr Asp Thr Ala Ser Gly Thr
255613          50          55          60
255614 Gly Leu Tyr Gln Thr Leu Val Gln Glu Ser Gln Tyr Gln Cys Leu Glu
255615          65          70          75          80
255616 Cys Gly Gln Leu Leu Met Ser Pro Ser Gln Leu Leu Glu His Gln Glu
255617          85          90          95
255618 Leu His Leu Lys Met Met Ala Pro Gln Glu Ala Val Pro Ala Glu Pro
255619          100         105         110
255620 Ser Pro Lys Ala Pro Pro Leu Ser Ser Ser Thr Ile His Tyr Glu Cys
255621          115         120         125
255622 Val Asp Cys Lys Ala Leu Phe Ala Ser Gln Glu Leu Trp Leu Asn His
255623          130         135         140
255624 Arg Gln Thr His Leu Arg Ala Thr Pro Thr Lys Ala Pro Ala Pro Val
255625          145         150         155         160
255626 Val Leu Gly Ser Pro Val Val Leu Gly Pro Pro Val Gly Gln Ala Arg
255627          165         170         175
255628 Val Ala Val Glu His Ser Tyr Arg Lys Ala Glu Glu Gly Gly Glu Gly
255629          180         185         190
255630 Ala Thr Val Pro Ser Ala Ala Ala Thr Thr Thr Glu Val Val Thr Glu
255631          195         200         205
255632 Val Glu Leu Leu Leu Tyr Lys Cys Ser Glu Cys Ser Gln Leu Phe Gln
255633          210         215         220
255634 Leu Pro Ala Asp Phe Leu Glu His Gln Ala Thr His Phe Pro Ala Pro
255635          225         230         235         240
255636 Val Pro Glu Ser Gln Glu Pro Ala Leu Gln Gln Glu Val Gln Ala Ser
255637          245         250         255
255638 Ser Pro Ala Glu Val Pro Val Ser Gln Pro Asp Pro Leu Pro Ala Ser
255639          260         265         270
255640 Asp His Ser Tyr Glu Leu Arg Asn Gly Glu Ala Ile Gly Arg Asp Arg
255641          275         280         285
255642 Arg Gly Arg Arg Ala Arg Arg Asn Asn Ser Gly Glu Ala Gly Gly Ala
255643          290         295         300
255644 Ala Thr Gln Glu Leu Phe Cys Ser Ala Cys Asp Gln Leu Phe Leu Ser
255645          305         310         315         320
255646 Pro His Gln Leu Gln Gln His Leu Arg Ser His Arg Glu Gly Val Phe
255647          325         330         335
255648 Lys Cys Pro Leu Cys Ser Arg Val Phe Pro Ser Pro Ser Ser Leu Asp
255649          340         345         350
255650 Gln His Leu Gly Asp His Ser Ser Glu Ser His Phe Leu Cys Val Asp
255651          355         360         365
255652 Cys Gly Leu Ala Phe Gly Thr Glu Ala Leu Leu Leu Ala His Arg Arg
255653          370         375         380
255654 Ala His Thr Pro Asn Pro Leu His Ser Cys Pro Cys Gly Lys Thr Phe
255655          385         390         395         400
255656 Val Asn Leu Thr Lys Phe Leu Tyr His Arg Arg Thr His Gly Val Gly

```

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

255657				405				410				415				
255658	Gly	Val	Pro	Leu	Pro	Thr	Thr	Pro	Val	Pro	Pro	Glu	Glu	Pro	Val	Ile
255659				420				425				430				
255660	Gly	Phe	Pro	Glu	Pro	Ala	Pro	Ala	Glu	Thr	Gly	Glu	Pro	Glu	Ala	Pro
255661				435				440				445				
255662	Glu	Pro	Pro	Val	Ser	Glu	Glu	Thr	Ser	Ala	Gly	Pro	Ala	Ala	Pro	Gly
255663				450				455				460				
255664	Thr	Tyr	Arg	Cys	Leu	Leu	Cys	Ser	Arg	Glu	Phe	Gly	Lys	Ala	Leu	Gln
255665	465						470				475				480	
255666	Leu	Thr	Arg	His	Gln	Arg	Phe	Val	His	Arg	Leu	Glu	Arg	Arg	His	Lys
255667				485						490					495	
255668	Cys	Ser	Ile	Cys	Gly	Lys	Met	Phe	Lys	Lys	Lys	Ser	His	Val	Arg	Asn
255669				500					505					510		
255670	Arg	Leu	Arg	Thr	His	Thr	Gly	Glu	Arg	Pro	Phe	Pro	Cys	Pro	Asp	Cys
255671				515				520				525				
255672	Ser	Lys	Pro	Phe	Asn	Ser	Pro	Ala	Asn	Leu	Ala	Arg	His	Arg	Leu	Thr
255673				530				535				540				
255674	His	Thr	Gly	Glu	Arg	Pro	Tyr	Arg	Cys	Gly	Asp	Cys	Gly	Lys	Ala	Phe
255675	545						550				555				560	
255676	Thr	Gln	Ser	Ser	Thr	Leu	Arg	Gln	His	Arg	Leu	Val	His	Ala	Gln	His
255677				565						570					575	
255678	Phe	Pro	Tyr	Arg	Cys	Gln	Glu	Cys	Gly	Val	Arg	Phe	His	Arg	Pro	Tyr
255679				580					585					590		
255680	Arg	Leu	Leu	Met	His	Arg	Tyr	His	His	Thr	Gly	Glu	Tyr	Pro	Tyr	Lys
255681				595				600					605			
255682	Cys	Arg	Glu	Cys	Pro	Arg	Ser	Phe	Leu	Leu	Arg	Arg	Leu	Leu	Glu	Val
255683				610				615				620				
255684	His	Gln	Leu	Val	Val	His	Ala	Gly	Arg	Gln	Pro	His	Arg	Cys	Pro	Ser
255685	625						630				635				640	
255686	Cys	Gly	Ala	Ala	Phe	Pro	Ser	Ser	Leu	Arg	Leu	Arg	Glu	His	Arg	Cys
255687				645						650				655		
255688	Ala	Ala	Ala	Ala	Gln	Ala	Pro	Arg	Arg	Phe	Glu	Cys	Gly	Thr	Cys	
255689				660				665				670				
255690	Gly	Lys	Lys	Val	Gly	Ser	Ala	Ala	Arg	Leu	Gln	Ala	His	Glu	Ala	Ala
255691				675				680				685				
255692	His	Ala	Ala	Ala	Gly	Pro	Gly	Glu	Val	Leu	Ala	Lys	Glu	Pro	Pro	Ala
255693				690				695				700				
255694	Pro	Arg	Ala	Pro	Arg	Ala	Thr	Arg	Ala	Pro	Val	Ala	Ser	Pro	Ala	Ala
255695	705						710				715				720	
255696	Leu	Gly	Ser	Thr	Ala	Thr	Ala	Ser	Pro	Ala	Ala	Pro	Ala	Arg	Arg	Arg
255697				725						730				735		
255698	Gly	Leu	Glu	Cys	Ser	Glu	Cys	Lys	Lys	Leu	Phe	Ser	Thr	Glu	Thr	Ser
255699				740					745				750			
255700	Leu	Gln	Val	His	Arg	Arg	Ile	His	Thr	Gly	Glu	Arg	Pro	Tyr	Pro	Cys
255701				755				760					765			
255703	Pro	Asp	Cys	Gly	Lys	Ala	Phe	Arg	Gln	Ser	Thr	His	Leu	Lys	Asp	His
255704				770				775				780				
255705	Arg	Arg	Leu	His	Thr	Gly	Glu	Arg	Pro	Phe	Ala	Cys	Glu	Val	Cys	Gly
255706	785						790				795				800	

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

255707 Lys Ala Phe Ala Ile Ser Met Arg Leu Ala Glu His Arg Arg Ile His  
 255708 805 810 815  
 255709 Thr Gly Glu Arg Pro Tyr Ser Cys Pro Asp Cys Gly Lys Ser Tyr Arg  
 255710 820 825 830  
 255711 Ser Phe Ser Asn Leu Trp Lys His Arg Lys Thr His Gln Gln Gln His  
 255712 835 840 845  
 255713 Gln Ala Ala Val Arg Gln Gln Leu Ala Glu Ala Glu Ala Ala Val Gly  
 255714 850 855 860  
 255715 Leu Ala Val Met Glu Thr Ala Val Glu Ala Leu Pro Leu Val Glu Ala  
 255716 865 870 875 880  
 255717 Ile Glu Ile Tyr Pro Leu Ala Glu Ala Glu Gly Val Gln Ile Ser Gly  
 255718 885 890 895

255721 &lt;210&gt; SEQ ID NO: 4838

255722 &lt;211&gt; LENGTH: 464

255723 &lt;212&gt; TYPE: PRT

255724 &lt;213&gt; ORGANISM: Homo sapiens

*appears twice*

E--&gt; 255726 &lt;400&gt; SEQUENCE: 461

255727 Met Phe Glu Asn Glu Ser Arg Lys Ile Phe Ser Glu Met Pro Glu Gly  
 255728 1 5 10 15  
 255729 Glu Ser Ala Gln His Ser Asp Gly Glu Ser Asp Phe Glu Arg Asp Ala  
 255730 20 25 30  
 255731 Gly Ile Gln Arg Leu Gln Gly His Thr Pro Gly Glu Asp His Gly Glu  
 255732 35 40 45  
 255733 Val Val Ser Gln Asp Arg Glu Val Gly Gln Leu Ile Gly Leu Gln Gly  
 255734 50 55 60  
 255735 Thr Tyr Leu Gly Glu Lys Pro Tyr Glu Cys Pro Gln Cys Gly Lys Thr  
 255736 65 70 75 80  
 255737 Phe Ser Pro Lys Ser His Leu Ile Thr His Glu Arg Thr His Thr Gly  
 255738 85 90 95  
 255739 Glu Lys Tyr Tyr Lys Cys Asp Glu Cys Gly Lys Ser Phe Ser Asp Gly  
 255740 100 105 110  
 255741 Ser Asn Phe Ser Arg His Gln Thr Thr His Thr Gly Glu Lys Pro Tyr  
 255742 115 120 125  
 255743 Lys Cys Arg Asp Cys Gly Lys Ser Phe Ser Arg Ser Ala Asn Leu Ile  
 255744 130 135 140  
 255745 Thr His Gln Arg Ile His Thr Gly Glu Lys Pro Phe Gln Cys Ala Glu  
 255746 145 150 155 160  
 255747 Cys Gly Lys Ser Phe Ser Arg Ser Pro Asn Leu Ile Ala His Gln Arg  
 255748 165 170 175  
 255749 Thr His Thr Gly Glu Lys Pro Tyr Ser Cys Pro Glu Cys Gly Lys Ser  
 255750 180 185 190  
 255751 Phe Gly Asn Arg Ser Ser Leu Asn Thr His Gln Gly Ile His Thr Gly  
 255752 195 200 205  
 255753 Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Glu Ser Phe Ser Tyr Asn  
 255754 210 215 220  
 255755 Ser Asn Leu Ile Arg His Gln Arg Ile His Thr Gly Glu Glu Pro Tyr  
 255756 225 230 235 240  
 255757 Lys Cys Thr Asp Cys Gly Gln Arg Phe Ser Gln Ser Ser Ala Leu Ile  
 255758 245 250 255

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

```

255759 Thr His Arg Arg Thr His Thr Gly Glu Lys Pro Tyr Gln Cys Ser Glu
255760                               260                               265                               270
255761 Cys Gly Lys Ser Phe Ser Arg Ser Ser Asn Leu Ala Thr His Arg Arg
255762                               275                               280                               285
255763 Thr His Met Val Glu Lys Pro Tyr Lys Cys Gly Val Cys Gly Lys Ser
255764                               290                               295                               300
255765 Phe Ser Gln Ser Ser Ser Leu Ile Ala His Gln Gly Met His Thr Gly
255766 305                               310                               315                               320
255767 Glu Lys Pro Tyr Glu Cys Leu Thr Cys Gly Glu Ser Phe Ser Trp Ser
255768                               325                               330                               335
255769 Ser Asn Leu Leu Lys His Gln Arg Ile His Thr Gly Glu Lys Pro Tyr
255770                               340                               345                               350
255771 Lys Cys Ser Glu Cys Gly Lys Cys Phe Ser Gln Arg Ser Gln Leu Val
255772                               355                               360                               365
255773 Val His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Leu Met
255774                               370                               375                               380
255775 Cys Gly Lys Ser Phe Ser Arg Gly Ser Ile Leu Val Met His Gln Arg
255776 385                               390                               395                               400
255777 Ala His Leu Gly Asp Lys Pro Tyr Arg Cys Pro Glu Cys Gly Lys Gly
255778                               405                               410                               415
255779 Phe Ser Trp Asn Ser Val Leu Ile Ile His Gln Arg Ile His Thr Gly
255780                               420                               425                               430
255781 Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Gly Phe Ser Asn Ser
255782                               435                               440                               445
255783 Ser Asn Phe Ile Thr His Gln Arg Thr His Met Lys Glu Lys Leu Tyr
255784                               450                               455                               460

```

255787 &lt;210&gt; SEQ ID NO: 4839

255788 &lt;211&gt; LENGTH: 347

255789 &lt;212&gt; TYPE: PRT

255790 &lt;213&gt; ORGANISM: Homo sapiens

*Appear twice*E--> 255792 <400> SEQUENCE: 462

```

255793 Met Ser Gly Pro Gly Asn Lys Arg Ala Ala Gly Asp Gly Gly Ser Gly
255794 1                               5                               10                               15
255795 Pro Pro Glu Lys Lys Leu Ser Arg Glu Glu Lys Thr Thr Thr Thr Leu
255796                               20                               25                               30
255797 Ile Glu Pro Ile Arg Leu Gly Gly Ile Ser Ser Thr Glu Glu Met Asp
255798                               35                               40                               45
255799 Leu Lys Val Leu Gln Phe Lys Asn Lys Lys Leu Ala Glu Arg Leu Glu
255800                               50                               55                               60
255801 Gln Arg Gln Ala Cys Glu Asp Glu Leu Arg Glu Arg Ile Glu Lys Leu
255802 65                               70                               75                               80
255803 Glu Lys Arg Gln Ala Thr Asp Asp Ala Thr Leu Leu Ile Val Asn Arg
255804                               85                               90                               95
255805 Tyr Trp Ala Gln Leu Asp Glu Thr Val Glu Ala Leu Leu Arg Cys His
255806                               100                              105                              110
255807 Glu Ser Arg Ile Arg Glu Leu Glu Glu Arg Asp Arg Arg Glu Ser Lys
255808                               115                              120                              125
255809 Lys Ile Ala Asp Glu Asp Ala Leu Arg Arg Ile Arg Gln Ala Glu Glu
255810                               130                              135                              140

```

**VERY IMPORTANT**

The types of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

## RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

```

255811 Gln Ile Glu His Leu Gln Arg Lys Leu Gly Ala Thr Lys Gln Glu Glu
255812 145                               150                               155                               160
255813 Glu Ala Leu Leu Ser Glu Met Asp Ala Gln Leu Leu Thr Val Gln Lys
255814                               165                               170                               175
255815 Leu Glu Glu Lys Glu Arg Ala Leu Gln Gly Ser Leu Gly Gly Val Glu
255816                               180                               185                               190
255817 Lys Glu Leu Thr Leu Arg Ser Gln Ala Leu Glu Leu Asn Lys Arg Lys
255818                               195                               200                               205
255819 Ala Val Glu Ala Ala Gln Leu Ala Glu Asp Leu Lys Val Gln Leu Glu
255820                               210                               215                               220
255821 His Val Gln Thr Arg Leu Arg Glu Ile Gln Pro Cys Leu Ala Glu Ser
255822 225                               230                               235                               240
255823 Arg Ala Ala Arg Glu Lys Glu Ser Phe Asn Leu Lys Arg Ala Gln Glu
255824                               245                               250                               255
255825 Asp Ile Ser Arg Leu Arg Arg Lys Leu Glu Lys Gln Arg Lys Val Glu
255826                               260                               265                               270
255827 Val Tyr Ala Asp Ala Asp Glu Ile Leu Gln Glu Glu Ile Lys Glu Tyr
255828                               275                               280                               285
255829 Lys Ala Arg Leu Thr Cys Pro Cys Cys Asn Thr Arg Lys Lys Asp Ala
255830                               290                               295                               300
255831 Val Leu Thr Lys Cys Phe His Val Phe Cys Phe Glu Cys Val Arg Gly
255832 305                               310                               315                               320
255833 Arg Tyr Glu Ala Arg Gln Arg Lys Cys Pro Lys Cys Asn Ala Ala Phe
255834                               325                               330                               335
255835 Gly Ala His Asp Phe His Arg Ile Tyr Ile Ser
255836                               340                               345

```

416828 &lt;210&gt; SEQ ID NO: 4994

416829 &lt;211&gt; LENGTH: 21

416830 &lt;212&gt; TYPE: DNA

416831 &lt;213&gt; ORGANISM: Artificial Sequence

416833 &lt;220&gt; FEATURE:

416834 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: an artificially synthesized primer sequence

416837 &lt;400&gt; SEQUENCE: 4994

416838 ggggctgaag acggcctatg t 21

E--&gt; 416842 (1)

*delete*

## VERIFICATION SUMMARY

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:43

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:254348 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4820  
differs:443  
L:254418 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4821  
differs:444  
L:254464 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4822  
differs:445  
L:254552 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4823  
differs:446  
L:254666 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4824  
differs:447  
L:254800 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4825  
differs:448  
L:254822 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4826  
differs:449  
L:254848 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4827  
differs:450  
L:254888 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4828  
differs:451  
L:254990 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4829  
differs:452  
L:255070 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4830  
differs:453  
L:255096 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4831  
differs:454  
L:255128 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4832  
differs:455  
L:255198 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4833  
differs:456  
L:255308 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4834  
differs:457  
L:255429 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4835  
differs:458  
L:255549 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4836  
differs:459  
L:255605 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4837  
differs:460  
L:255726 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4838  
differs:461  
L:255792 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4839  
differs:462  
L:255844 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4840  
differs:463  
L:255979 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4841  
differs:464  
L:256077 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4842  
differs:465  
L:256127 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4843  
differs:466  
L:256200 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4844  
differs:467  
L:256260 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4845



differs:468  
L:256345 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4846  
differs:469  
L:256425 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4847  
differs:470  
L:256471 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4848  
differs:471  
L:256537 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4849  
differs:472  
L:256577 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4850  
differs:473  
L:256673 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4851  
differs:474  
L:256709 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4852  
differs:475  
L:256743 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4853  
differs:476  
L:256770 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4854  
differs:477  
L:256850 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4855  
differs:478  
L:256911 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4856  
differs:479  
L:256945 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4857  
differs:480  
L:256981 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4858  
differs:481  
L:257024 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4859  
differs:482  
L:257052 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4860  
differs:483  
L:257096 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4861  
differs:484  
L:257124 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4862  
differs:485  
L:257231 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4863  
differs:486  
L:257255 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4864  
differs:487  
L:257281 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4865  
differs:488

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:43

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

L:257381 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4866  
differs:489

L:257426 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4867  
differs:490

L:257452 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4868  
differs:491

L:257496 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4869  
differs:492

L:416842 M:254 E: No. of Bases conflict, this line has no nucleotides.

L:9 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (4994) Counted (7988)

The types of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.